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ISSUE PRIORITY GROUPING THREE SHIPMENT CONSOLIDATION EFFECTIVENESS MODEL

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DEPARTMENTS DEFENSE

LOGISTICS AGENCY

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Issue Priority Grouping Three Shipment Consolidation Effectiveness Model

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May 1989

PLNP

LT Stephen R. Von Hitritz, SC, USN Operations Research and Economic Analysis Office Headquarters Defense Logistics Agency Cameron Station, Alexandria, Virginia



DEFENSE LOGISTICS AGENCY

HEADQUARTERS CAMERON STATION ALEXANDRIA, VIRGINIA 22304-6100

DLA-LO

FOREWORD

This report summarizes the work done and conclusions reached in a study of depot low priority shipment consolidation effectiveness. The analysis was performed by the Operations Research and Economic Analysis Management Support Office for the Directorate of Supply Operations, Transportation Division.

IPG III requisitions for compatible items and with the same destinations are consolidated to make maximum use of transportation and warehousing funds. This process is highly automated but frequently the oldest requisition is removed from the shipment data bank before the routine drop date. The resulting consolidation is thus smaller than it would have been under ideal conditions.

The model constructed for this study emulates the consolidation process. The optimization of the consolidation process assumes a perfect system but can still be a useful tool in determining effectiveness trends at DLA supply depots. For a typical depot in a 45 day period this model shows that under optimal conditions, small parcel shipments could be reduced in excess of 63 percent.

ROSER C. ROY
Assistant Dire

Policy and Plans

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I. <u>INTRODUCTION</u>. In a letter dated 8 September 1986, Defense Logistics Agency's Directorate of Supply Operations, Transportation Division (DLA-OT) requested that DLA Operations Research and Economic Analysis Office (DLA-LO) analyze the effectiveness of our depots in processing Issue Priority Grouping (IPG) III Material Release Orders (MROs). Part I (Depot Effectiveness IPG III Processing) of this analysis was completed in July 1987 and analyzed the effectiveness of DLA's depots in processing IPG III MROs and the economic viability of DLA's 98 percent on-time goal for this priority. Part II consisted of developing a model to measure depot IPG III shipment consolidation effectiveness.

A. Background

Requisitions are received at a depot, when the information is transmitted to the Mechanization of Warehousing and Shipment Processing (MOWASP) System by the DLA Supply Center. IPG III requisitions are allowed a specific amount of time to reach the customer. Therefore, IPG III requisitions for compatible items and same location can be consolidated into one shipment.

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The consolidation process begins with the receipt of an MRO at a depot. Mandatory Date to Transportation (MDT) is assigned to each MRO which reflects the longest period of time for shipment to meet delivery requirements to the consignee within the Uniform Materiel Movement and Issue Priority System (UMMIPS) timeframe. The MRO may be held in the bank until the Document Release Date (DRD) (MDT less depot processing and transportation hold times) is achieved, but generally it is dropped earlier than the date to satisfy workload requirements. All incoming IPG III MROs are placed into the MOWASP system and segregated into computer bank or repository by geographic distribution area. Each depot designates its own geographic regions. The consolidation process occurs when all MROs to a given DoDAAC, freight destination (DCR), or geographical region are pulled from the bank. MROs sharing specific The characteristics (e.g. same DoDAAC, compatible warehouse locations and various shipping compatibility factors, level of hazard; temperature control, etc.). A shipping unit can apply to either a freight and small parcel shipment consolidation or just a small parcel consolidation. A Transportation Unit is the consolidated shipment tendered the carrier; it can be composed of a single, or multiple, shipment unit.

When the oldest requisitions in a geographical area's bank begin physical processing to reach the customer on time, all of that area's or customer's shipping units are identified and listed on a computer printout. As a shipping unit drops from the bank, it queues for processing at the appropriate warehouse in IPG sequence. The warehouse is allowed one to three days (each depot fixes its own standard) to "pick and pack" the shipping unit lines together (in boxes or on pallets) as a shipping unit. Once shipping unit lines are packed into a shipping unit, transportation has two days to send the shipping unit on its way to the customer, either via a small parcel mode or as a freight shipment under a consolidated Government Bill of Lading (GBL), depending on the weight and cube.

B. <u>Problem Statement</u>. Develop a model to measure depot IPG III shipment consolidation effectiveness. Sometimes the oldest requisition is removed from the bank before the scheduled DRD. The resulting consolidation is thus smaller than it should be under ideal conditions.

C. Objectives

- 1. For each DLA depot, measure the number of shipping units built, the number of small parcel shipments, and the number of transportation units built.
- 2. For each DLA depot, determine the optimal number of small parcel shipments and the optimal number of transportation units which could have been built.

D. Scope

- 1. In accordance with the client, the data base will consist of a period of 45 days to be selected anytime during the past twelve months.
 - 2. Only CONUS shipments will be considered.
- 3. Eliminate single line shipments for which truckload minimum weights have been achieved.
- 4. Shipments with incompatible cargo codes and special requirements codes will not be considered.
- 5. The model does not consider freight cost savings. For freight cost savings to be computed, a guaranteed traffic rate data base would have to be constructed. Rates from all depots to all destinations are frequently changed by carrier performance so the cost and time of constructing this data base would be prohibitive.
- 6. The model does consider small parcel cost savings. These savings calculations are detailed in Appendix B. If the figures at Defense Depot Tracy, California for the sample forty-five day period are extended to the other six DLA depots, savings of \$4,828,131 are conceivable. Small parcel Mode 9 (Overseas) shipments were not costed out.

II. <u>CONCLUSIONS AND RECOMMENDATION</u>

A. Conclusions Drawn From the Model

Under optimal conditions, small parcel shipments can be reduced thus realizing significant cost savings.

Reliance on Mode A Truckload (TL) shipments would increase, while both Less-Than-Truckload (LTL) and small parcel shipments would decrease substantially.

Using the results from this model, transportation managers will be able to quickly determine the efficiency level of their consolidation effort.

It is estimated that it will take one man-month to make adjustments and to run the model for all six DLA depots for one period of time.

- B. Recommendation. This model should be used to determine consolidation efficiency trends at DLA depots. The results obtained from this model should be weighed against the number and significance of the assumptions made. Individual depots will now be able to compare consolidation performance against an ideal measure. Headquarters staff personnel will be able to track the performance of each of the DLA depots and suggest areas of possible improvement.
- III. <u>DATA DEVELOPMENT</u>. The analysis methodology requires two types of data about the system being modeled: MRO data and bank times.

A. Depot MRO History Records

DLA retains a computer record of every MRO successfully processed and delivered to a military customer. Each customer is identified by its own account number, the Department of Defense Activity Address Code (DODAAC) and by its central delivery point, the Destination Cross-Reference Code (DCR). Detailed inspection of the records pertinent to the analysis revealed many different types of MROs and substantial diversity among types. The requisitions differed greatly in volume, weight, item type, and frequency of demand; furthermore, over 4700 separate central delivery points, DCRs, received material from the six DLA depots, with the total weight received by individual DCRs ranging from a few pounds to millions of pounds a year.

For the forty-five days selected, the model matches each MRO by National Item Identification Number (NIIN) to a separate stock number file to look up the corresponding special requirements code, cargo code, and hazardous storage compatibility code. The hazardous storage code is used to eliminate radioactive items from the input MROs.

Other conditions are required for an MRO record to be selected. Specifically, the MRO records selected for analysis were those which showed:

- 1. IPG = 3. MROs from IPG I and IPG II were not used as inputs.
- 2. DODAAC. The first position of this code indicated if the activity was Foreign Military Sales (FMS) or not. FMS shipments were specifically excluded.
- 3. CONUS Parcel Post Zone has a value of 1 through 8. CONUS shipments are numbered 1-8, overseas shipments are given a value of 9.

- 4. Nonzero weight. An entity must have weight to have meaning in the model. Because some MRO quantities are "rolled up" to the lead MRO in a transportation unit, the weight on a selected record may not always be attributable to the NIIN on the record; however, the resulting compatibility codes are representative of the items accounting for the weight, and the other information is accurate.
- 5. Mode A (Truckload), B (Less Than Truckload), G (Surface Parcel Post), or 5 (United Parcel Service). Material shipped by any other mode is rarely evaluated in IPG III on-time performance.
- 6. Geographic Area Code in range A- Z. Each depot can also assign codes in range 0 9, but these are often reserved for unusual (e.g. disposal shipments) or overseas shipments.
- 7. Matchable NIIN. Needed for consolidation criteria. Rare MROs show blanks or non-MOWASP items in this field.
- 8. Document Identifier Code not equal to "A5J". This value indicates a property disposal shipment.
- 9. Hazardous Storage Compatibility Code not equal to "Al". This value indicates radioactive items.
- B. <u>Bank Times</u>. The duration of the bank cycle is based on the day of the week and the estimated shipping time for the distribution area. The model uses the depot and area to locate this information in a data table.

IV. SIMULATION MODEL

A. System Description: The MRO Process

DLA Supply Centers (DSCs) transmit military supply requests to depots as MROs, where each MRO represents some quantity of only one type of item. Each requisition is identified by the customer's DODAAC. The MROs are also distinguished by Issue Priority Group. Those MROs which are IPG I or IPG II are separated from the IPG III MROs because they have shorter delivery suspenses and will rarely combine with the latter for shipment.

Each IPG III MRO arriving at a depot is stored in a computer "bank" for its distribution area and its corresponding DCR. It is combined into a shipping unit with other MROs from the same DODAAC when certain compatibility criteria are met. A MRO is then identified by shipping unit number and its own line number for that shipping unit. When the oldest MROs in an area's bank must begin physical processing at a warehouse in order to reach the customer on time, some or all of the area's shipping units are "dropped" from the computer.

When a shipping unit drops from the bank, it queues for processing at the appropriate warehouse behind higher priority IPG I and IPG II MROs. The warehouse is allowed typically one to three days to "pick" the material on each line from its storage location, pack the lines together (in boxes or on pallets) as the shipping unit, and send it to the freight or small parcel terminal for shipping. If designated for freight, a shipping unit will be held at the terminal for consolidation with other units destined for the same destination and loaded on a truck to leave on a predetermined day. The total time at the freight terminal is usually between 24 and 48 hours.

The process of satisfying IPG III MRO demand differs from depot to depot because each depot processes a unique set of MROs and employs different resources to perform its mission. The number of supply warehouses and the physical layout of each depot is different, as is the degree of use of automated conveyors, forklifts, and various packing devices. Furthermore, the unique geographic relationship of each depot to its customers has led depot managers to divide the country differently into distribution areas for planning, banking and transportation purposes.

Despite these differences, each depot behaves according to the uniform Mechanization of Warehousing And Shipping Procedures (MOWASP). This set of regulations describes detailed policies and procedures for processing MROs the same way at all depots. Therefore, while the depots may employ different internal means for certain tasks, all six depots do conform to a general system.

B. Model Development Approach

- 1. Extract records from the MRO history file and match them with the NSN file for the period to be covered for a DLA depot.
- 2. Delete all records that are not complete, delete records indicating more than one shipment, and delete records of items that cannot be combined into one shipment.
- 3. Sort the DLA file by geographical area, DCR, cargo code, special requirements code, and depot receipt date.
- 4. Construct FORTRAN model for mainframe application to consolidate requisitions into shipments.
- 5. From the same trimmed file, count the number of shipments actually built and the number of shipment. built under optimal circumstances. These "optimal" conditions are described in the next section.

C. Model Features and Assumptions

- 1. General Model Concept. The MRO process can be described as the flow of entities (lines or shipping units through a network of queues, branching nodes, and service activities). This network consists of four different processes: arrival, banking, processing and transportation. Each MRO passes sequentially through the four processes by itself or as part of a larger unit, or entity.
- $\,$ 2. MRO Arrivals. An entity is created each time an MRO $\,$ record is read from the input file.

3. Shipping Unit Processing

The picking and packing operations at a depot are complex and labor-intensive, and differ greatly between depots and between warehouses at a depot. The details of warehousing were not critical to estimation of the analysis measures of comparison. The chief modeling needs in this area were to create an appropriate delay between the time a shipping unit drops for processing and the time it is shipped, and to route processed shipping units to the correct transportation terminal (freight or small parcel).

The shipping unit's processing time is assumed to be independent of the number of lines and the other shipping units being processed. Perfect supply is assumed: any shipping unit dropped will be successfully picked, packed and delivered to transportation.

V. <u>SIMULATION RESULTS</u>

A. The data chosen for verification of the model was taken from Defense Depot, Tracy California for the period 14 February 1988 to 31 March 1988. The depot and time period were randomly selected. Model output is summarized in Table 1.

Table 1

SUMMARY OF MODEL OUTPUT (SHIPPING UNITS)

	<u>Actual</u>	<u>Optimized</u>
Total Freight Shipping Units Total Small Parcel Shipping Units	19,286 <u>27,726</u>	4,112 <u>13,099</u>
Total Shipping Units	47,012	17,211*

^{*} indicates an improvement of 63%

- B. The model assumes perfect supply, that is no human or mechanical errors throughout the consolidation process. The consolidation performance is undoubted, high in each case because actual warehouses will occasionally process an item too late for shipment in the intended cycle, but this is not permitted in the model. The optimized model will not drop records. Thus the optimized model will process more weight than what actually occurs. We expect the optimized system to move more freight in fewer shipments. The output merely reinforces this outcome.
- C. These examples merely confirm that the model's output is useful only if interpreted in light of the model's assumptions. In general, the model assumed that all depots performed near a theoretical optimal level of efficiency for the particular time standard.
- D. Appendix B is a listing of ε small portion of output from this model. It covers Geographic Areas A and B only and is included for illustration purposes.

APPENDIX A

Model Code

LEVEL 1.3.0 (MAY 1983)

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OPTIONS	INS IN EFFECT: NOLIST NUMAP NOXREF NOGOSTWI NODECK SOURCE TERM OBJECT FIXED OPT(0) LANGLVL(77) NOFIPS FLAG(1) NAME(WAIN) LINECOUNT(60)	NOTEST NOTRMFLG SACFLG NOSYM CHARLEN(500) SDUMP
	**1	60
1 5 N N N N N N N N N N N N N N N N N N	5 T B	000 (006) 000 200 6) 000 300 6)
I SN I SN		00040061 00050061
	C READ TYPE OF DEPOT AND BANK TIMES FOR GEOGRAPHICAL AREAS	00050061
ISN	KEAD (11.1010)	00030061 00100061
ISN	\$ K1,K2,K3,K 1010 format (A2,3512)	00110061 00120061
	G READ RECORDS, ONE AT A TIME, COPY ALL RECORDS FOR GA A TO FILE 10	00140061
ISN	100 CONTINUE	0016061
ISN	B 1000 FORMAT (A.2X.A6	00170062 00180065
I SN	* IF (GA.EQ.'A') THEN Z XTX*KTX+1	00190061
1 SN	1001 FORMAT (A	00210062 00220065
ISN	END IF	00230061
NS I	200 CONT 1	000 mg / 000
<u> </u>		00270061
	O: NG UNIT	0028006 1 0029006 1
	C SHIPPING UNITS BY DODAAC. 3. WRITE FREIGHT SHIPPING UNITS TO	00300061
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I SN	CALL SUN(PP CALL PSHIP(00340061 00350061
I SN	22 CALL FSHIP(23 KTR*O	00360061 00370061
I SN	24 ENG 1F 25 25 REVINO B	00380061 00390081
	C REPEAT THE SAME PROCESS FOR GEOGRAPHICAL AREA B, ETC.	00410061 00410061
NSI	26 101 CONTINUE	00420061 00430061
ISN	READ(9, 1000 IF (GA:EQ:	00440061 00450061
NSI NSI		00460061 00470061
NSI NSI	32 20f CONTINUE	00480061 00480061
NS.I		00510061

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NS N	ñř	6 0 (1		CALL FSH	HIP (FR, FAREA, FWGT, MDA)	MDATE, DEPOT)		00550061		
Z	*	o c	10.5	END IF				00570061		
NS			Š	REWIND S				00580061		
2 2	4 4		200	READ(9, 1000). END=202)GA.DCR.DQDAC.CC.SRC.RECDTE.WT	C. CC. SRC. RECDTE, WT		00600061		
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Z Z				END IF	•			00640061		
N				GD TD 102				00650061		
Z Z	4 R		202	CONTINUE REWIND 10				00660061		
NS.		:		IF (KTR.GT.	O) THEN			00680061		
NS 7	in i			CALL SUN	I(PP. PAREA PWGT. KC. FR.	FAREA.FWGT.WDATE)		00690061		
Z Z			2524 (A) 2004 (A) 2004 (A)	CALL FSH	HIP (FR. FAREA, FWGT, MOAT	TE.DEPOT)		907 1006		
SN	ัน			KTR=0				00720061		
S S	ມັດັ	ن 0		END IF				00730061		
			103	CONTINUE				00/4006 1 2008 1 3008		
			•	READ(8, 1000). END-203)GA. BCR. BUDAC	C.CC. SRC. RECOTE, WT		00760061		
NS 2				TF (GA EQ.	O THEN			100770061		
Z Z	9 39	- ~		٧ -	10, 1001)GA.DCR.DODAC.CC.SRC.RECDTE	CC. SRC. RECDTE. WT		00790061	٠	
	Ö	е.		D IF	. :			00800061		
	&	** **	Ş	GG TO 103				00810081		
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2				KIRD	COMPTON CONTRACTOR			19008800		
N.	· · · ·			END IT				00890061		
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S S			204	CONTIN				00980061		
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S	88	(C :		CALL FSH	IIP (FR , FAREA , FWGT , MDA	re, DEPOT)		01030061		
Z	6	8	- 5	KTR=0				01040061		
Z Z				REWIND 9				01060061		
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ZS Z		¥		•			0120006			
ZZ	200	6 QNINES					0122006			
ISN	106 106	CONTINUE					0123006	· -		
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ZZ		IF (GA.ED. G.) THEN					0125036			
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2 2	7 4	REWIND TO THEM								
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ISN	, ,	REVIND 9		**			Ö			
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2.2	125 498	WOTTE (10 tookles	THE BUCKE DE	ADV DEND'TE			0142006			
Z	127	END IF					0144006			
S.S.	128	80 TO 107					0145006			
NS	29 207	CONTINUE					0146006	_		
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2 7	200		A DOE DOBAL	TO SOC DECT) 3 4 1:		0133004			
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ZZ		SNO IF					0160006			
S Z	145 208	CONTINUE					0162006			
NS I		REVIND 10					0163006			

17 (CALL SUN(PP PAREA, PWGT, KT, FR, FAREA, FWGT, MOATE) CALL SUN(PP PAREA, PWGT, KT, FR, FAREA, FWGT, MOATE) CALL SUN(PP PAREA, PWGT, KT, FR, FAREA, FWGT, MOATE) CALL SUN(PP PAREA, PWGT, MOATE, DEPOT) END 17 END 16. EC. 'J') THEN WHITE (10. (0.01) GA, DCR, DDDAC, CC, SRC, RECDTE, WT KTR, GT, 'J') THEN WHITE (10. (0.01) GA, DCR, DDDAC, CC, SRC, RECDTE, WT KTR, GT, 'J') FRAIND 10 IF (MAR. GT, 'J') FREAD 10 IF (MAR. GT, '		C		0		
CALL PSHIP(FR. FAREA, FWGT DEPOT) KKTR-0 CALL FSHIP(FR. FAREA, FWGT, MDATE, DEPOT) KKTR-0 CALL FSHIP(FR. FAREA, FWGT, MDATE, DEPOT) READ(S. 1000, END-209) GA, DCR. DODAC, CC. SRC. RECDTE, WT FRANCHING KRANCHING CALL FSHIP(FR. FAREA, FWGT, MDATE, DEPOT) FRANCHING CALL FSHIP(FR. FAREA, FWGT, MDATE, DEPOT) CALL FSHIP(FR. FAREA, FWGT, MDATE, DEPOT) KKTR-0 FRANCHING CALL FSHIP(FR. FAREA, FWGT, MDATE, DEPOT)	IF (KIR.GT.O) THEN		00	1640061		
CALL FSHIP(FR. FAREA. FWGT. MDATE. DEPOT) KTRR-0 READ(9. 1000. END-209) GA., DCR. DODAC., CC., SRC. RECDTE., WT FRAD(9. 1000. END-209) GA., DCR. DODAC., CC., SRC. RECDTE., WT KTRR-0 FRAD(1) IF KTR. SHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL PSHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL PSHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL SHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL SHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL SHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL SHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL SHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL SHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL SHIP(PP. PAREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL PSHIP(PR.); ARREA. PWGT. KR.); R. FAREA. FWGT. MDATE) CALL PSHIP(PR.); ARREA. PWGT. KR.); R. FAREA. FWGT. MDATE CONTINUS CALL PSHIP(PR.); ARREA. PWGT. KR.); FREED(1); WT KTR-MT.; GA. 1001 140 CONTINUS CON	CALL SUNITY PAREA, PUSTONE SENT	The second secon		1660061		
END 1F REVIND 3 CONTINUE READ 9. 1000. END=209 GA.DCR.DODAC.CC.SRC.RECDTE.WT F (AL. ED. 4") THEN WRITE (10. 1001) GA.DCR.DODAC.CC.SRC.RECDTE.WT F (AL. ED. 4") THEN COLL SWIPP PAREA PWGT.KU.FR.FAREA.FWGT.MDATE) CALL SWIPP PAREA.PWGT.KU.FR.FAREA.FWGT.MDATE) CALL SWIPP PAREA.PWGT.KU.FR.FAREA.FWGT.MDATE) CALL SWIPP PAREA.PWGT.KU.FR.FAREA.FWGT.MDATE) CALL SWIPP PAREA.FWGT.MDATE.DEPGTT) FRANCO.END=210) GA.DCR.DODAC.CC.SRC.RECDTE.WT FRANCO.END=210) GA.DCR.DODAC.CC.SRC.RECDTE.WT FRANCO.END=210) GA.DCR.DODAC.CC.SRC.RECDTE.WT FRANCO.END=211) GA.DCR.DODAC.CC.SRC.RECDTE.WT FRANCO.END=211) GA.DCR.DODAC.CC.SRC.RECDTE.WT CALL FSHIP (FR.FAREA.FWGT.MDATE.DEPGTT) FRANCO.END=211 GA.DCR.DODAC.CC.SRC.RECDTE.WT CALL FSHIP (FR.FAREA.FWGT.MDATE.DEPGTT) FRANCONTINUE FRANCO.END=211 GA.DCR.DODAC.CC.SRC.RECDTE.WT FRANCO.END=211 GA.BCR.DODAC.CC.SRC.RECDTE.WT FRANCO.END=211 GA.BCR.DODAC.CC.SRC.RECDTE.WT FRANCO.END=211 GA.BCR.DODAC.CC.SRC.RECDTE.WT FRANCO.END=211 GA.BCR.DODAC.CC.SRC.RECDTE.WT FRANCO.END=211 GA.BCR.DODAC.CC.SRC.RECDTE.WT FRANCOORDE.WT FRANC	CALL FSHIP(FR, FAREA, FWGT		o c	1670061		
CALL PSHIP(FR: FAREA; FWGT, MDATE, DEPOTT) F (AA. CO.) THEN WRITE (10, 1001)GA, DGR, DODAG, CG, SRC, RECDTE, WT F (AA. CO. 'J.) THEN WRITE (10, 1001)GA, DGR, DODAG, CG, SRC, RECDTE, WT CALL SUN(PP, PAREA, PWGT, MATE, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, DEPOTT) KRIPG CALL SUN(PP, PAREA, PWGT, DEPOTT) KRIPG CALL SUN(PP, PAREA, PWGT, DEPOTT) KRIPG CALL SUN(PP, PAREA, PWGT, MATE, DEPOTT) KRIPG CALL SUN(PP, PAREA, PWGT, KR, FREA, FWGT, MDATE) CALL PSHIP(FR; FAREA; FWGT, MATE, DEPOTT) CALL PSHIP(FR; FAREA; FWGT, MATE, DEPOTT) CALL PSHIP(FR; FAREA; FWGT, MATE, DEPOTT) EAD IF CALL FSHIP(FR; FAREA; FWGT, MATE, DEPOTT) END IF CALL SUN(PP, PAREA, PWGT, KL, FR; FREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KL, FR; FREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KL, FR; FREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KL, FR; FREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KL, FR; FREA, FWGT, MDATE, DEPOTT) KRIPATION CALL SUN(PP, PAREA, PWGT, KL, FR; FREA, FWGT, MDATE, DEPOTT) CALL SUN(PP, PAREA, PWGT, MEDEDT) CALL SUN(PP, PAREA, PWGT, MEDEDT) CALL SUN(PP, PAREA, PWGT, MDATE, DEPOTT)	EVA TEN		0	1690061		
READ(9, 1000, END-209) GA, DCR, DODAC, CC, SRC, RECDTE, WT KRE-KRA+ KRTE-KRA+ KRTE-KRA+ WRITE (10, 1001) GA, DCR, DODAC, CC, SRC, RECDTE, WT KND IF GAL SUN(PP, PAREA, PWGT, KU, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KU, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KU, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KU, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KU, FR, FRECDTE, WT KRE-KRH+ CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, MGT, MDATE, DEPOT) KRTS-CALL SUN(PP, PAREA, PWGT, MGT, DEPOT) CALL SUN(PP, PAREA, PWGT, LEPTT) CALL SUN(PP, PAREA, FWGT, MDATE, DEPOTT) CALL SUN(PP, PAREA, FWGT, WDATE, DEPOTT) CALL SUN(PP, PAREA, FWGT, PAREA, FWGT, MDATE, DEPOTT) CALL SUN(PP, PAREA, FWGT, PAREA, F	A AND CONTRACTOR		06	1700061		
If (GA EQ., U') THEN WITTE (10, 1001) GA, DCR, DGDAC, CC, SRC, RECOTE, WT WITTE (10, 1001) GA, DCR, DGDAC, CC, SRC, RECOTE, WT GALL SHIP (PP, PAREA, PWGT, WJ, PR, FAREA, FWGT, MDATE) CALL SHIP (PP, FAREA, FWGT, MDATE, DEPOT) KYRRO CALL FSHIP (FR, FAREA, FWGT, MDATE, DEPOT) KYRRO CALL FSHIP (FR, FAREA, FWGT, MDATE, DEPOT) KYRRO CALL FSHIP (FR, FAREA, FWGT, MDATE, DEPOT) KYRRO CALL SHIP (PR, FAREA, FWGT, MDATE, DEPOT) KYRRO KYRRO CALL SHIP (PR, FAREA, FWGT, MDATE, DEPOT) KYRRO CALL SHIP (PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, WRATE, DEPOT) KYRRO CALL FSHIP (FR, FAREA, FWGT, MDATE, DEPOT) KYRRO CONTINUE REMIND 9 CONTINUE REMIND 10 KYRRO FWGT CONTINUE REMIND 10 FWGT CONTINUE CONTINUE REMIND 10 FWGT CONTINUE CO	READ(9, 1000.	RECDIE, WT	•	1720061		
WRITE (10, 1001) GA. DCR. DUDAC. CC. SRC. RECDIE. WT 6.00 IF 6.01 IF 6.01 IF 6.01 IND 10 CALL SUN(PP. PAREA. PWGT. KU.FR. FAREA. FWGT. MDATE.) CALL SUN(PP. PAREA. PWGT. KU.FR. FAREA. FWGT. MDATE.) CALL SUN(PP. PAREA. PWGT. KU.FR. FAREA. FWGT. MDATE.) CALL SUN(PP. PAREA. PWGT. MDATE. DEPGT.) KTR-O END IF READIS. (10, 1001) GA. DCR. DUDAC. CG. SRC. RECDIE. WT END IF (6A. EQ. K.F.) THEN WRITE (10, 1001) GA. DCR. DUDAC. CG. SRC. RECDIE. WT END IF (6A. EQ. K.F.) CALL SUN(PP. PAREA. PWGT. KK. FR. FAREA. FWGT. MDATE.) CALL SUN(PP. PAREA. PWGT. KK. FR. FAREA. FWGT. MDATE.) CALL PSHIP (PR. FAREA. PWGT. KK. FR. FAREA. FWGT. MDATE.) CALL PSHIP (PR. FAREA. PWGT. KR. FREEDTE. WT CALL SUN(PP. PAREA. PWGT. MDATE. DEPGT.) KTR-O END IF KTR-O END IF KTR-O CALL SHIP (FR. FAREA. FWGT. MDATE. DEPGT.) KTR-O CALL SHIP (PR. FAREA. FWGT. MDATE. DEPGT.) CALL SHIP (PR. FAREA. FWGT. MDATE. DEPGT.) KTR-O CALL SHIP (PR. FAREA. FWGT. MDATE. DEPGT.)	IF (GA.EQ. 'J		0	1730061		
EWD IF CALL PSHIP (PR. FAREA, FWGT, MDATE) CALL PSHIP (PR. FAREA, FWGT, MDATE) CALL PSHIP (PR. FAREA, FWGT, MDATE) CALL PSHIP (PR. FAREA, FWGT, MDATE, DEPOT) KTRO CALL PSHIP (PR. FAREA, FWGT, MDATE, DEPOT) KTRO CALL PSHIP (PR. FAREA, FWGT, MDATE, DEPOT) KTRO END IF REWIND 9 CONTINUE REWIND 10 IF (GA. EQ. K.) THEN CALL PSHIP (PP. PAREA, PWGT, KK, FR. FAREA, FWGT, MDATE) CALL PSHIP (PP. PAREA, PWGT, KK, FR. FAREA, FWGT, MDATE) CALL PSHIP (PP. PAREA, PWGT, KK, FR. FAREA, FWGT, MDATE) CALL PSHIP (PP. PAREA, PWGT, MBATE, DEPOT) KTRA CALL FSHIP (PP. PAREA, PWGT, MBATE, DEPOT) KTRA CALL FSHIP (FR. FAREA, FWGT, MBATE, DEPOT) KTRA KTRA CONTINUE REWIND 10 IF (GA. EQ. IL.) THEN KTRA WRITE (10, 1001) GA. DCR. DUDAC, CC. SRC. RECDIE, WT END IF CONTINUE REWIND 10 IF (KR. GT. O) THEN KTRA CALL SHIP (FR. FAREA, FWGT, MDATE, DEPOT) CALL SHIP (PP. PAREA, PWGT, DEPOT) CALL SHIP (PP. PAREA, PWGT, DEPOT) CALL SHIP (PP. PAREA, PWGT, DEPOT) CALL SHIP (FR. FAREA, FWGT, MDATE, DEPOT) CALL SHIP (FR. FAREA, FWGT, MDATE, DEPOT)	KIR=KIR+1		0.6	1740061		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CALL SUN(PP, PAREA, PWGT, KU, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KU, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KU, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KU, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KU, FR, FAREA, FWGT, MDATE) REWIND 9 CONTINUE REWIND 9 CONTINUE REWIND 9 CONTINUE REWIND 9 CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL SUN(PP, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL FSHIP(FR, FAREA, FWGT, MDATE, BEPGT) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPGT) CALL SUN(PP, PAREA, PWGT, KL, FR, FRREA, FWGT, MDATE, CALL SHIP(FR, FAREA, FWGT, MDATE, DEPGT) CALL SHIP(FR, FAREA, FWGT, MDATE, DEPGT) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPGT)	END IF		0	1760061		
REWIND 10 IF (KTR. GT. O) THEN CALL SUN(PP. PAREA, PWGT; KU, FR, FAREA, FWGT, MDATE) CALL SUN(PP. PAREA, PWGT; KU, FR, FAREA, FWGT, MDATE, CALL, SUN(PP. PAREA, PWGT; MDATE, DEPGT) CALL SUN(PP. PAREA, FWGT, MDATE, DEPGT) CALL SUN(PP. PAREA, FWGT, MDATE, DEPGT) CALL SUN(PP. PAREA, FWGT, MDAC, CC, SRC, RECDTE, WT FROM THE (40, 100) GA, DCR, DODAC, CC, SRC, RECDTE, WT FROM THE (40, 100) GA, DCR, DODAC, CC, SRC, RECDTE, WT FROM TO THE CALL SUN(PP. PAREA PWGT, KK, FR. FAREA, FWGT, MDATE) CALL SUN(PP. PAREA PWGT, KK, FR. FAREA, FWGT, MDATE) CALL SUN(PP. PAREA, PWGT, MATE, DEPGT) CALL SUN(PP. PAREA, PWGT, MATE, DEPGT) KYR*** CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPGT) KYR*** CALL FSHIP(FR, FAREA, FWGT, MDATE, CALL, SUN(FP, PAREA, PWGT, KL, FR, FAREA, FWGT, MDATE) CALL SUN(FP, PAREA, PWGT, KL, FR, FAREA, FWGT, MDATE) CALL SUN(FP, PAREA, PWGT, KL, FR, FAREA, FWGT, MDATE) CALL SUN(FP, PAREA, PWGT, KL, FR, FAREA, FWGT, MDATE, CALL SUN(FP, PAREA, PWGT, DEPGT) KKTR GT. O) THEN KTR GT. O) T			0	1770061		
IF (KTR.GT.O) THEN CALL SUN(PP.PAREL, PWGT.KUJ.FR.FAREA.FWGT.MDATE) CALL SSHIP(PP.PAREA.PWGT.KUJ.FR.FAREA.FWGT.MDATE) CALL PSHIP(PP.PAREA.PWGT.MDFGT) CALL PSHIP(FR.FAREA.PWGT.MDFGT) CALL PSHIP(FR.FAREA.FWGT.MDATE.DEPGT) END IF REWIND 9 CONTINUE KTR.GT.O) THEN CALL SUN(PP.PAREA.PWGT.CC.SRC.RECDTE.WT END IF CALL SUN(PP.PAREA.PWGT.CFFOT) CALL SUN(PP.PAREA.PWGT.MCFOT) CALL SUN(PP.PAREA.PWGT.MCFOT) CALL SUN(PP.PAREA.PWGT.MCFOT) CALL SUN(PP.PAREA.PWGT.MCFOT) CALL SHIP(FR.FAREA.FWGT.MDATE.DEPGT) CALL SHIP(FR.FAREA.FWGT.MDATE.DEPGT) CALL SHIP(FR.FAREA.FWGT.MDATE.DEPGT) CALL SHIP(FR.FAREA.FWGT.MDATE.DEPGT) KTR.MTWJ REWIND 9 CONTINUE READ 9. 1000.END-211)GA.DCR.DGDAC.CC.SRC.RECDTE.WT KTR.MTR.1 WRITE (10, 1001)GA.DCR.DGDAC.CC.SRC.RECDTE.WT KTR.MTR.1 WRITE (10, 1001)GA.DCR.DGDAC.CC.SRC.RECDTE.WT CALL SHIP(PP.PAREA.PWGT.MC.T.DEPGT) CALL SUN(PP.PAREA.PWGT.MC.T.DEPGT) CALL SHIP(PP.PAREA.PWGT.MC.T.DEPGT) CALL SHIP(PR.FAREA.FWGT.MDATE.DEPGT) CALL SHIP(PR.FAREA.FWGT.MDATE.DEPGT) KTR.D CALL FSHIP(FR.FAREA.FWGT.MDATE.DEPGT) CALL FSHIP(FR.FAREA.FWGT.MDATE.DEPGT) CALL FSHIP(FR.FAREA.FWGT.MDATE.DEPGT) KTR.D CALL FSHIP(FR.FAREA.FWGT.MDATE.DEPGT) KTR.D CALL FSHIP(FR.FAREA.FWGT.MDATE.DEPGT) KTR.D CALL FSHIP(FR.FAREA.FWGT.MDATE.DEPGT) KTR.D	1 ZOS CONTINUE 2 DEWIND 10		ÒĊ	1780061 1790061		
CALL SUNIPP. PAREA. PWGT. KJ. FR. FAREA. FWGT. WDATE) CALL PSHIP(FR. FAREA. FWGT.) KTR=0 END IF READS. CALL FSHIP(FR. FAREA. FWGT.) MDATE. DEPGT) KTR=0 END IF READS. FEATUR. FEATUR. FEATUR. FEATUR. FEATUR. FEATUR. FOR 10 CALL FSHIP(FR. FAREA. FWGT. WDATE. CALL SUNIPP. PAREA. PWGT. KK. FR. FAREA. FWGT. MDATE) CALL SUNIPP. PAREA. PWGT. KK. FR. FAREA. FWGT. MDATE) CALL SUNIPP. PAREA. PWGT. KK. FR. FAREA. FWGT. MDATE) CALL FSHIP(FR. FAREA. FWGT. MDATE.) CALL FSHIP(FR. FAREA. FWGT. MDATE. DEPGT.) KTR=0 END IF FRANO. 10 CONTINUE FRANO. 10 CONTINUE FRANO. 10 CALL FSHIP(FR. FAREA. FWGT. WDATE.) CALL FSHIP(FR. FAREA. FWGT. MDATE.) CALL SUNIPP. PAREA. PWGT. KL. FR. FAREA. FWGT. MDATE.) CALL FSHIP(FR. FAREA. FWGT. MDATE. DEPGT.) KTR=0 KTR=0 CALL FSHIP(FR. FAREA. FWGT. MDATE. DEPGT.) KTR=0 CALL FSHIP(FR. FAREA. FWGT. MDATE. DEPGT.) KTR=0 KTR=0 CALL FSHIP(FR. FAREA. FWGT. MDATE. DEPGT.)	3 IF (KTR.GT.O) THEN		Ö	1800061		
CALL PSHIP(PP.PAREA. PWGT.) BEDGT) KTR- KTR- CALL FSHIP(FR.FAREA. FWGT.) MGATE.DEPGT) KTR- END IF REAJOS. END-210) GA. DCR. DGDAC.CC.SRC.RECDTE.WT IF (GA. EQ. KK.) THEN KTR-KTR-1 WRITE (10, 1001) GA. DCR. DGDAC.CC.SRC.RECDTE.WT END IF GO TO 110 CALL SHIP(PP. PAREA. PWGT. KK.FR.FAREA. FWGT. MDATE) CALL PSHIP(PP. PAREA. PWGT. KK.FR.FAREA. FWGT. WDATE) CALL FSHIP(FR.FAREA. FWGT. MDATE. DEPGT) KTR-KTF- KTR-KTF- KTR-KTF- WRITE (10, 1001) GA. DCR. DGDAC.CC.SRC.RECDTE.WT F (GA. EQ. 11) CONTINUE READ(9, 1000. END-211) GA. DCR. DGDAC.CC.SRC.RECDTE.WT F (GA. EQ. 11) CONTINUE REATED REATED CALL SHIP(PP. PAREA. FWGT. KL. FR.FAREA. FWGT. WDATE) CALL SHIP(PP. PAREA. FWGT. KL. FR.FAREA. FWGT. WDATE) CALL SHIP(PP. PAREA. FWGT. KL. FR.FAREA. FWGT. WDATE) CALL FSHIP(PP. PAREA. FWGT. MDATE. DEPGT) KTR- CALL FSHIP(PR. FAREA. FWGT. WGT. MDATE. DEPGT) KTR- CALL FSHIP(PR. FAREA. FWGT. WGT. MDATE. DEPGT) KTR- CALL FSHIP(PR. FAREA. FWGT. WGT. MDATE. DEPGT)	CALL SUN(PP, PAREA, PWGT, KU, FR, FAREA.	IGT, MOATE)) O	1810061		
CALL FSHIP(TRETAKEA; WAST, MARIE, DEPOT) KTR=O END IF REWIND 9 REALIND 9 REALIND 9 REALIND 16 REALIND 16 TF (GA, EQ. K') THEN WITTE (10, 1001)GA, DCR, DODAC, CC, SRC, RECDTE, WT END IF CALL FSHIP(FR; FAREA, FWGT, KK, FR, FAREA, FWGT, MDATE) CALL FSHIP(FR; FAREA, FWGT, KK, FR, FAREA, FWGT, MDATE) CALL FSHIP(FR; FAREA, FWGT, KR, FR, FAREA, FWGT, MDATE) CALL FSHIP(FR; FAREA, FWGT, MDATE, DEPOT) KTR=O CALL FSHIP(FR; FAREA, FWGT, MDATE, DEPOT) KTR=KTR+1 KTR-KTR+1 KTR=KTR+1 KTR-KTR+1 KTR-CONTINE KTR-KTR+1 KTR-CONTINE KTR-CONTINE KTR-CONTINE KTR-C	CALL PSHIP(PP, PAREA, PWGT, DEPOT)		0 (1820061		
END IF REWIND 9 CONTINUE READ(6, 1000, END=210)GA.DCR.DDDAG.CC.SRC.RECDTE.WT IF (GA.EQ.'K') THEN WITE (10.1001)GA.DCR.DDDAC.CC.SRC.RECDTE.WT END IF GO TO 110 CONTINUE CALL FSHIP(FR:FAREA.FWGT.KK.FR.FAREA.FWGT.MDATE) CALL FSHIP(FR:FAREA.FWGT.KK.FR.FAREA.FWGT.MDATE) CALL FSHIP(FR:FAREA.FWGT.KK.FR.FAREA.FWGT.MDATE) CALL FSHIP(FR:FAREA.FWGT.KK.FR.FAREA.FWGT.MDATE) CALL FSHIP(FR:FAREA.FWGT.WGATE.DEPGT) WITE (10.1001)GA.DCR.DDDAC.CC.SRC.RECDTE.WT REWIND 9 CONTINUE KTR-KTR+1 CONTINUE KTR-KTR+1 CONTINUE CALL SUN(PP.PAREA.FWGT.KL.FR.FAREA.FWGT.MDATE) CALL SUN(PP.PAREA.FWGT.MDATE.DEPGT) KTR-KTR-CALL SUN(PP.PAREA.FWGT.MDATE.DEPGT) KTR-KTR-CALL SUN(PP.PAREA.FWGT.MDATE.DEPGT) KTR-CALL FSHIP(FR.FAREA.FWGT.MDATE.DEPGT)	CHAN TOTAP TANKER AND THESE X POST		C	1840061		
REWIND 9 CONTINUE WRITE (10. 1000, END-210) GA.DCR. DGDAC, CC, SRC, RECDTE, WT FEAGLE 10. (x) THEN WRITE (10. 1001) GA.DCR. DGDAC, CC, SRC, RECDTE, WT END IF GG TG 110 CONTINUE CALL SUN(PP. PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL PSHIP (PP. PAREA, PWGT, MOATE, DEPOT) CALL FSHIP (FR, FAREA, FWGT, MOATE, DEPOT) FF (GA, EQ, L.) THEN FREWIND 9 CONTINUE READ(9, 1000, END-211) GA, DCR, DGDAC, CC, SRC, RECDTE, WT FF (GA, EQ, L.) THEN WRITE (10, 1001) GA, DCR, DGDAC, CC, SRC, RECDTE, WT FF (GA, EQ, L.) THEN FF (GA, EQ, L.) T	8 END IF		Ö	1850061		
READ(S) 1000, END=210)GA.DCR.DODAC,CC.SRC.RECDTE.WT KTR=KTR+1 KTR=KTR+1 WRITE (10, 1001)GA.DCR.DODAC,CC.SRC.RECDTE.WT END IF GO TO 110 CONTINUE REWIND 10 END IF CALL PSHIP(FR.FAREA.FWGT,MOATE,DEPOT) CALL FSHIP(FR.FAREA.FWGT,MOATE,DEPOT) CALL FSHIP(FR.FAREA.FWGT,MOATE,DEPOT) END IF REWIND 9 CONTINUE RED(S) 1000, END=211)GA.DCR.DODAC,CC.SRC.RECDTE.WT KTR=KTR+1 WRITE (10, 1001)GA.DCR.DODAC,CC.SRC.RECDTE.WT KTR=KTR+1 WRITE (10, 1001)GA.DCR.DODAC,CC.SRC.RECDTE.WT END IF KTR=KTR+1 WRITE (10, 1001)GA.DCR.DODAC,CC.SRC.RECDTE.WT END IF KTR=KTR+1 WRITE (10, 1001)GA.DCR.DODAC,CC.SRC.RECDTE.WT END IF CONTINUE REWIND 10 IF (KTR GT.O) THEN CALL SUN(FP.PAREA.FWGT,WDATE.DEPOT) CALL SUN(FP.PAREA.FWGT,WDATE.DEPOT) CALL FSHIP(FR.FAREA.FWGT,WDATE.DEPOT)	9 REWIND 9		Ò	1860061		
READIS, 1000, END=210 NGA, DCR, DUDAC, CC, SRC, RECDIE, WI KREKTRH-I WRITE (10, 1001) GA, DCR, DUDAC, CC, SRC, RECDIE, WI END IF GG TO 10 CONTINUE REWIND 10 IF (KTR GT, 0) THEN CALL FSHIP (FR; FAREA, FWGT, MOATE, DEPOT) END IF REWIND 9 CONTINUE KTREKTH (10, 1001) GA, DCR, DUDAC, CC, SRC, RECDIE, WT END IF (MARRETTH (10, 1001) GA, DCR, DUDAC, CC, SRC, RECDIE, WT END IF (KTR, GT, 0) THEN KTREKTH (10, 1001) GA, DCR, DUDAC, CC, SRC, RECDIE, WT CONTINUE REWIND 10 IF (KTR, GT, 0) THEN CALL SHIP (FR, FAREA, FWGT, MDATE, DEPOT) CALL PSHIP (FR, FAREA, FWGT, MDATE, DEPOT) CALL FSHIP (FR, FAREA, FWGT, MDATE, DEPOT) CALL FSHIP (FR, FAREA, FWGT, MDATE, DEPOT)	S CONTINUE		O:			
KTR=KTR+1 WRITE (10,1001)GA, DCR, DDDAC, CC, SRC, RECDIE, WT END IF GG TO 110 CDMTINUE REWIND 10 IF (KTR.GT.O) THEN CALL SUN(PP. PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL FSHIP(FR, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL FSHIP(FR, PAREA, PWGT, KK, FR, FAREA, FWGT, MDATE) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPOT) IF (GA.EQ. 'L.) THEN KTR-KTR+1 WRITE (10,1001)GA, DCR, DODAC, CC, SRC, RECDIE, WT END IF GONTINUE REMIND 10 IF (KTR-GT.O) THEN CONTINUE REWIND 10 IF (KTR-GT.O) THEN CALL SUN(PP, PAREA, FWGT, MDATE, DEPOT) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPOT)	READIS, 1000, END=210, GA, DCR, DUDAC, CG, SKG IF (GA ED 'K') THEN	RECOTE: VI	90			
WRITE (10, 1001) GA, DCR, DDDAC, CC, SRC, RECDIE, WT END IF GOT TO 110 CONTINUE REWIND 10 IF (KTR.GT.O) THEN CALL FSHIP(FR, FAREA, FWGT, MDATE) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPOT) IF (GA, EQ, 'L') THEN KTR-KTR+1 WRITE (10, 1001) GA, DCR, DDDAC, CC, SRC, RECDIE, WT END IF GONTINUE REWIND 16 IF (KTR-GT, O) THEN CALL SUN(PP, PAREA, FWGT, MDATE, DEPOT) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPOT)	KTR=KTR+1		O			
END 110 CDNTINUE REWIND 10 IF (KTR.GT.O) THEN CALL SUN(PP.PAREA.PWGT, KK.FR.FAREA.FWGT, MDATE) CALL FSHIP(PR.FAREA.FWGT, MDATE, DEPOT) CALL FSHIP(FR.FAREA.FWGT, KL.FR, FAREA.FWGT, MOATE, DEPOT) CALL FSHIP(FR.FAREA.FWGT, MDATE, DEPOT) CALL FSHIP(FR.FAREA.FWGT, MDATE, DEPOT) CALL FSHIP(FR.FAREA.FWGT, MDATE, DEPOT) CALL FSHIP(FR.FAREA.FWGT, MDATE, DEPOT) KTR=O	WRITE (10,	CDTE, WT	0	1910061		
CONTINUE REWIND TO IF (KTR. GT. O) THEN CALL SUN(PP. PAREA. PWGT. KK. FR. FAREA. FWGT. MDATE) CALL SUN(PP. PAREA. PWGT. KK. FR. FAREA. FWGT. MDATE) CALL PSHIP(PP. FAREA. FWGT. MDATE. DEPOT) CALL FSHIP(FR. FAREA. FWGT. MDATE. DEPOT) KTR. O K	5 END IF		0.0			
REWIND 10 IF (KTR. GT. O) THEN CALL SUN(PP. PAREA, PWGT, KK, FR. FAREA, FWGT, MDATE) CALL PSHIP(PP. PAREA, PWGT, KK, FR. FAREA, FWGT, MDATE) CALL FSHIP(FR. FAREA, FWGT, MDATE, DEPOT) CALL FSHIP(FR. FAREA, FWGT, MDATE, DEPOT) END IF REWIND 9 CONTINUE READ(9, 1000, END=211) GA, DCR. DODAC, CC, SRC, RECDTE, WT READ(9, 1000, END=211) GA, DCR. DODAC, CC, SRC, RECDTE, WT READ(9, 1000, END=211) GA, DCR. DODAC, CC, SRC, RECDTE, WT REWIND 16 GO TO 111 CONTINUE REWIND 10 IF (KTR. GT. O) THEN CALL SUN(PP, PAREA, PWGT, KL, FR, FAREA, FWGT, WDATE) CALL SUN(PP, PAREA, FWGT, MDATE, DEPOT) KTR=0 END IF CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPOT) KTR=0	7 210 CONTINUE) (0	1940061		
CALL SUN(PP. PAREA. PWGT. KK. FAREA. FWGT. MDATE) CALL SUN(PP. PAREA. PWGT. DEPOT) CALL FSHIP(FR. FAREA. FWGT. DEPOT) KTR-0 END IF REWIND 9 CONTINUE REWIND 11 CONTINUE REWIND 1 CONTINUE REWIND	SCHOOL OF CHOOL OF CH		0.0	1950061		
CALL PSHIP(PP.PAREA.PWGT, DEPOT) CALL FSHIP(FR.FAREA.FWGT, MDATE, DEPOT) KTR=0 END IF REWIND 9 CONTINUE REWIND 9 CONTINUE REWIND 9 CONTINUE REMIND 9 CONTINUE REMIND 11 CONTINUE REMIND	CALL SUN(PP. PAREA. PWGT. KK. FR. F	(GT.MDATE)	Ò	1970061		
CALL FSHIP(FR.FAREA, FWGT, MDATE, DEPOT) KTR=0 END IF REWIND 9 CONTINUE REAG (L.) THEN KTR=KTR+1 WRITE (10, 1001) GA.DCR.DODAC, CC.SRC.RECDTE, WT KTR=KTR+1 WRITE (10, 1001) GA.DCR.DODAC, CC.SRC.RECDTE, WT END IF GO TO 111 CONTINUE REWIND 16 CALL SUN(PP.PAREA, PWGT, KL.FR, FAREA, FWGT, MDATE) CALL SHIP(FR.FAREA, FWGT, MDATE, DEPOT) KTR=0 END IF CALL FSHIP(FR.FAREA, FWGT, MDATE, DEPOT)	CALL PSHIP (PP, PAREA, PWGT, DEPOT		Ö	1980061		
KTR*O END IF REWIND 9 CONTINUE READ(9,1000,END=211)GA.DCR.DDDAC.CC.SRC.RECDTE.WT IF (GA.EQ.'L.) THEN KTR*KTR+1 WRITE (10,1001)GA.DCR.DDDAC.CC.SRC.RECDTE.WT END IF GO TO 111 CONTINUE REWIND 10 CALL SUN(PP.PAREA.PWGT.KL.FR.FAREA.FWGT.WDATE) CALL SHIP(FR.FAREA.FWGT.MDATE.DEPOT) KTR=0 END IF CALL FSHIP(FR.FAREA.FWGT.MDATE.DEPOT)	CALL FSHIP(FR, FAREA, FWGT		0	1990061		
REWIND 9 I CONTINUE READ(9, 1000, END=211) GA, DCR, DODAC, CC, SRC, RECDTE, WT IF (GA, EG, 'L') THEN RTR=RTR+1 WRITE (10, 1001) GA, DCR, DODAC, CC, SRC, RECDTE, WT RTR=RTR+1 WRITE (10, 1001) GA, DCR, DODAC, CC, SRC, RECDTE, WT END IF GO TO 111 CONTINUE REWIND 16 IF (KTR, GT, O) THEN CALL SUN(PP, PAREA, PWGT, KL, FR, FAREA, FWGT, WDATE) CALL PSHIP(FR, FAREA, FWGT, MDATE, DEPOT) KTR=0 END IF	S KIR*O		Ö	200061		
CONTINUE READ(9,1000.END=211)GA, DCR, DDDAC, CC, SRC, RECDTE, WT IF (GA,EG,'L') THEN KTR-KTR+1 KTR-KTR+1 WRITE (10,1001)GA, DCR, DDDAC, CC, SRC, RECDTE, WT END IF GO TO 111 CONTINUE REWIND 10 IF (KTR,GT,O) THEN CALL SUN(PP, PAREA, PWGT, KL, FR, FAREA, FWGT, WDATE) CALL SUN(PP, PAREA, PWGT, MDATE, DEPOT) KTR=0 END IF KTR=0	S REVINO 9		5 8	2020061		
READ(9, 1000, END=211)GA, DCR, DODAC, CC, SRC, RECDTE, WT IF (GA, £6, 'L') THEN KTR*KTR+1 WRITE (10, 1001)GA, DCR, DODAC, CC, SRC, RECDTE, WT END IF GO TO 111 CONTINUE REWIND 10 IF (KTR, GT, 0) THEN CALL SUN(PP, PAREA, PWGT, KL, FR, FAREA, FWGT, WDATE) CALL SUN(PP, PAREA, PWGT, MDATE, DEPOT) KTR=0 END IF	CONTINUE		ö	2030061		
KTR-KTR+1 KTR-KTR+1 KTR-KTR+1 WRITE (10.1001)GA.DCR.DDAC.CC.SRC.RECDTE.WT END IF GO TO 111 CONTINUE REWIND 10 IF (KTR.GT.O) THEN CALL SUN(PP.PAREA.PWGT.KL.FR.FAREA.FWGT.WDATE) CALL PSHIP(FR.FAREA.FWGT.MDATE.DEPOT) KTR-O END IF	READ(9, 1000, END=211)GA, DCR, DUDAC, CC, SRC	RECDTE, WT	öi	2040061		
WRITE (10, 1001) GA.DCR. DODAC, CC. SRC. RECDTE. WT END IF GO TO 111 CONTINUE REWIND 10 If (KTR. GT. O) THEN CALL SUN(PP, PAREA, PWGT, KL. FR, FAREA, FWGT, WDATE) CALL SUN(PP, PAREA, PWGT, DEPOT) CALL FSHIP (FR. FAREA, FWGT, MDATE, DEPOT) KTR-O END IF	S LF (GA.EQ.'L') IMEN		88	2050061		
END IF GO TO 111 REWIND 10 IF (KTR GT O) THEN IF (KTR GT O) THEN CALL SUN(PP, PAREA, PWGT, KL, FR, FAREA, FWGT, WDATE) CALL PSHIP(PP, PAREA, PWGT, DEPOT) KTR-O END IF	WRITE (10.	COTE.WT	30	2070061		
GO TO 111 I CONTINUE REWIND 10 IF (KTR 10) THEN IF (KTR 10) THEN IF (KTR 20) THEN IF (KTR 20) THEN IF (KTR 20) THEN IF (KTR 20) THEN CALL SUN(PP.PAREA, PWGT, KL, FR, FAREA, FWGT, WDATE) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPOT) KTR-0 END IF	END IF		8	2080061		
CONTINUE REWIND 10 IF (KTR. OT D) THEN IF (KTR. OT D) THEN IF (KTR. OT D) THEN CALL SUN(PP, PAREA, PWGT, KL, FR, FAREA, FWGT, WDATE) CALL PSHIP(PP, PAREA, PWGT, DEPOT) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPOT) KTR-O END IF	GO TO 111		ö	2090061		
IF (KTR. GT. O) THEN CALL SUN(PP, PAREA, PWGT, KL, FR, FAREA, FWGT, WDATE) CALL SHIP(PP, PAREA, PWGT, DEPOT) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPOT) KTR-O END IF	3 211 CONTINUE		ÖÌ	2100061		
CALL SUN(PP, PAREA, PWGT, KL, FRREA, FWGT, WDATE) CALL PSHIP(PP, PAREA, PWGT, DEPOT) CALL FSHIP(FR, FAREA, FWGT, MDATE, DEPOT) KTR=O END IF	A TE (ETO AT D) THEN		S è	130061		
CALL PSHIP(PP.PAREA.PWGT.DEPOT) CALL FSHIP(FR.FAREA.FWGT.MDATE.DEPOT) KTR=O	CALL SUN(PP. PAREA, PWGT, KL. FR. F	/GT; WOATE)	88	2130061		
CALL FSHIP(FR,FAREA,FWGT,MDATE,DEPOT) 021 KTR=0 021	CALL PSHIP(PP, PAREA, PWGT, DEPOT		ö	2140061		
120 200 200 200 200 200 200 200 200 200	CALL FSHIP(FR, FAREA, FWGT, MDATE		88	2150061		
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502	KIR=KIR+1 Wolle (40 4004)GA DCD DODAC CC SDC DECDIE WI	02220061	
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N	12 CONTINUE BENTAL A	02070061	
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0	CALL PSHIP (PP. PAREA, PWGT,	02300061	
***	FSHIP (FR. FAREA, FW	02310061	
м 10		02320061	
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•	A CONTINUE C	02340061	
- 010	DEAD(O 1000 END-010)CA DODAY OF OF DECOTE WE	02360061	
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223) IF	02400061	
24	GO TO 113	024 1006 1	
7	ш:	02420061	:
		02430061	
227	IF (KTR.GT.O) THEN	02440061	
» (SON(PP, PAREA, PWG-K	02450061	
5 C	CALL FORITY FY, FAKEA, FEG., UEFUL)	02450061	
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2	END I F	02490081	
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		02510061	
ສຸ	READ(9,1000,END=214)GA,DCR,D0DAC,CC,SRC,RECDIE,WI	02520061	
7.	P=KTR+1	02540061	
	WRITE (10, 1001) GA, DCR, DUDAC, CC, SRC, RECUTE, WT	02550061	
90		02560061	
		02570061	
~	14 CONTINUE	02580061	
2 6	REWIND 10	02590061	
7		02610061	
20.00	PSHIP (PP. PAREA, PWGT, DEPO	02620061	
Ų		02630061	
	KTR=0	02640061	
50 (02650061	
249	REWIND 9	02660061	
	0643	0368005	
	ED. P. J. THEN	02840061	
	KTR=KTR+1	02700061	
54	WRITE (10, 1001)GA, DCR, DDDAC, CC, SRC. RECDTE, WT	02710061	
	IF.	02720061	
1		02730061	
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CALL SUN(PP, PAREA, PWG)	T.KP.FR.FAREA.FWGT.MDATE) MGT DEDGT	0277006	
CALL FSHIP(FR, FAREA, FY CALL FSHIP(FR, FAREA, FY END IF REWIND 9	FWGT, WDATE, DEPOT)	0278006 0279006 0280006 0281006	
CONTINUE READ(9,1000, IF (GA.EQ.'Q KTR=KTR+1	END=216)GA,DCR,DQDAC,CC,SRC,RECDTE.WT	0283006 0284006 0285006 0286006	
ITE (10, 1001)GA,DCR,DDDAC,CC,SRC,RECDTE,WT	0287006 0288006 0289006	
CONTINUE REWIND 10 IF (KTR.GT.O) THEN		0290006 0291006 0292006	
CALL SUN(PP.PAREA,PWG) CALL PSHIP(PP.PAREA,PW	T.KO.FR,FAREA,FWGT.MDATE) WGT.DEPGT) WGT.MDATE.DEPGT)	0293006 0294006 0295006	
KTR=O END IF REWIND 9		0296006 0297006 0298006	
7 CONTINUE READ(8,1000, END=217)GA.DCR. IF (GA.EQ.'R') THEN	CR, DODAG, CC, SRC, RECOTE, WT	0289006 0300006 0301006	
ITE (10,	1001)GA,DCR,DUDAC,CC.SRC,RECDTE,WT	0303006	:
GO TO 117 CONTINUE REWIND 10 IF (KTR.GT.O) THEN CALL SUN(PP,PAREA,PWGT	T.KR.FR.FAREA, FWGT, MDATE)	0303050 0304006 0308006 0308006	
CALL PSHIP(PP.PAREA.PV CALL FSHIP(FR.FAREA.FV END IF FENIND 9	WGT, WDATE, DEPOT)	0310000 03110000 03110000 03130000	
118	ND=218)GA,DCR,DDDAC,CC,SRC,RECDTE,WT) THEN 1001)GA,DCR,DDDAC,CC,SRC,RECDTE,WT	031000 0311000 0311000 0311000	
REWIND 10 # (KIR GT 0) THEN CALL SUN(PP, PAREA, PWG1 CALL PSHIP(PP, PAREA, PWG1 CALL FSHIP(FR, FAREA, FN	WGT.KŠ.FR;FAREA,FWGT.MDATE) .PWGT.DEPOT) .fwgt.mdate.depot)	0322006 03224006 0324006 0324006 0326006 0326006	
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	READ(9:1000, END=219)GA, DCR, DODAC, CC, SRC, RECDTE, WT	03320061	
	TO THE STANDARD OF THE STANDARD STANDAR	03340061	
	WRITE (10, 1001)GA, DCR, DQDAC, CC, SRC, RECDTE, WT	03350061	
3	END IF	03360061	
		03380061	
		03390061	
	1070	03400061	
	ADEA DWGT	03420061	
	AREA FEGI	03430061	
		03440061	
		03450061	
	SUMPLIANTE	03470061	
	READ(9, 1000, END=220)GA, DCR, DDDAC, CC, SRC, RECDTE, WT	03480061	
	2	03490061	
	KTR-KTR+1 LD111 (.0 1001)01 DEB BODAT OF EST BEFATE W	03900061	
	END IF	03520061	
	GD 70 120	03530061	
	220 CONTINUE	03540061	
		03550061	
900	IF (MTR.GT.O) THEN	03560061	
5 - -	PAREA PWGT DEP	03580061	
٠ ۵	FAREA FWGT	03590061	
6	KTR=0	03600061	
~ •		03610061 03690061	
o «c	121 CONTINUE	03630061	
_	READ(9, 1000, END	03640061	
∞ (IF (GA.EQ.'V') THEN	03650061	
ි ග ද	KIREKIK+1 WOTTE (10 1001)GA DIO DIDIAC DE SPC DECDTE WIT	0365006	
y 🕶		03680061	
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6	7	03700061	
41	REWIND 10	03710061	
់ ១ ឧ	IF (KIK.GI.O)	03730061	
·	CALL PSHIP (PP. PAREA, PWGT, DEPO	03740061	
.	. FSHIP(FR, FAREA, FWGT	03750061	
ത		0376061	
٥.	END IF	03770061	
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	READ(9, 1000,	03800061	, :
	IR (OA EO, 'V') TER	038 1006 1	i,
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10 h	WRITE (10,1001)GA, DCR, DDDAC, CC, SRC, RECDIE, WI	03830061	
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FWGT, MDATE) C. RECOTE, WT CECOTE, WT THECOTE, WT TECOTE, WT	FAREA, FWGT C. SRC. RECD FAREA, FWGT T) E. DEPOT.) FAREA, FWGT T)	O) THEN (PP. PAREA, PWGT, KW, FR, FAREA, FWGT IIP (FR. FAREA, PWGT, DEPOT) (END=223)GA, DCR, DGDAC, CC, SRC, RE (PP. PAREA, FWGT, MDATE, DEPOT) IIP (FR. FAREA, FWGT, KX, FR, FAREA, FWGT IIP (FR. FAREA, FWGT, KX, FR, FAREA, FWGT IIP (FR. FAREA, FWGT, KX, FR, FAREA, FWGT IIP (FR. FAREA, FWGT, KY, FR, FAREA, FWGT IIP (FR. FAREA, FWGT, WDATE, DEPOT) (O) THEN (OP. PAREA, PWGT, KY, FR, FAREA, FWGT IIP (FR. FAREA, FWGT, WDATE, DEPGT) O) THEN (O) THEN O) TH	03880061 03890661 0390061 03910061	03920061 03930061 03950061 03960061 03970061	03980061 03890061 04010061 04010061	0404006 0405006 0407006 0407006) — (4) (4) (4) (4) (0416061 04170061 04190061 04200061 04200061 04200061	04230061 04240061 04260061 04260061 04270061	0430006 0430006 0432006 0433006 0433006 0433006	04360061 04360061 04380061 04380061 1300061
	WGT, KW, FR, FAREA, PWGT, MDATE, DEPO DCR. DODAC, CC, SRC, PWGT, BEPOT) FWGT, BEPOT) FWGT, BODAC, CC, SRC, DCR. DODAC, CC, SRC, BCR. DODAC, CC, SRC, CR. DODAC, CC, SRC, AGT, KY, FR, FAREA, AGT, KY, FR, FAREA, AGT, KY, FR, FAREA, AGT, KZ, FR, FAREA; FWGT, BODAC, CC, SRC, AGT, KZ, FR, FAREA; FWGT, MDATE, DEPOT)	0) THEN IIP (PP, PAREA, PWGT, KW, FR, IIP (PP, PAREA, PWGT, KW, FR, IIP (PP, PAREA, PWGT, KX, FR, IIP (PP, PAREA, PWGT, KX, FR, IIP (PP, PAREA, PWGT, KX, FR, IIP (PP, PAREA, PWGT, KY, FR, IIP (PP, PAREA, PWGT, KY, FR, IIP (PP, PAREA, PWGT, BEDGG, CO) THEN O) THEN (PP, PAREA, PWGT, KY, FR, IIP (PP, PAREA, PWGT, BEDGG, CO) THEN (PP, PAREA, PWGT, BEDGG, CO) THEN O) T	e e	C.RECDTE.WT	recote.WT	i incr		FWGT, MDATE)		RECOTE, WT	FWGT, MDATE) T)

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VS FORTRAN	2 КТВ. GT. O) ТНЕN	CALL SUN(PP,PAREA,PWGT,K4,F CALL PSHIP(PP,PAREA,PWGT,DE CALL FSHIP(FR,FAREA,FWGT,MD	TR=0	10 DX	(9, 1000, END=230)GA, DCR, DC	58.54.5) INCN TR=KTR+1	RITE (10,1001)GA, DCR, DOD/	5 130	INUE	KTR.GT.O) THEN	ALL SUN(PP.PAREA.PWGT.KS	CALL FSHIP(FR. FAREA, FWGT.)	TR=O	60 C	TNUE	(B. 1000, END=231)GA, DCR, DC	BA.EQ.'6') THEN TR=KTR+1	RITE (10, 1001)GA, DCR, DUDA	END IF	- 07 - 01 - 01 - 01 - 01 - 01 - 01 - 01	NO 10	KTR.GT.O) THEN	ALL SUN(PP.PAREA, PWGT, KG	ALL PSHIP (PP.PAREA, PWG1.	1	LL.	6 QN	INUE (9 1000 END=232)GA DCP DC	GA. EQ. 77.) THEN			END IF	CONTINUE	ND 10	KTR.GT.O) THEN	CALL SUN(PP, PAREA, PWGT, K7	ALL FOHIP(FP, PAKEA, FWG!, I		1.5	ARWIND G	AND Englishment of the property of the second of the secon
3.0 (MAY 1983)	483	15N 484 CA	487 END	A89 REVII	491 READ	787 493	A04	496 GO T(497 230 CONT.	498 KEWII 499 IF (F	0 T	301 802 0	503	504 END	506 131 CONT.	507 READ	508 IF (510	511 END	512 513 513 500T	B14 KEVI	515 IF (1	516	517	0 to	520 END	521 REWIN	522 132 CUNI	524 TF ((525 7	526	527 END	526 525 CDNT	530 REWII	531 IF (832 133	500 800 800 800 800 800 800 800 800 800	50.5	536 END	537 REWII	מפע ופים בחותי
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OCT 28		C.CC.SRC, RECDIE, WI	FWGT.M	C, RECD	FR, FAREA, FWGT, MDATE. DEPOT)	
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VS FORTRAN C	#### 1000, END *233)GA, DCR, DODAC, CC, SRC, RECDTE, WT if (da. EQ. '8') THEN	MATTE (10, 1001)GA, DCR, DODAC, CC 1 If TD 133 TINUE TND 10	(KTR.GT.O) THEN CALL SUN(PP.PAREA.PWGT,KB.FR.FAREA.FWGT,MDATE) CALL SSHIP(FR,FAREA.FWGT,DEPOT) CALL.FSHIP(FR,FAREA.FWGT,MDATE,DEPOT) KTR-O IF	CONTINUE READ(9, 1000, END=234)GA, DCR, DODAC, CC, SRC, RECDTE, WT IF (GA, EQ. 9') THEN IF (GA, EQ. 9') THEN WRITE (10, 1001)GA, DCR, DQDAC, CC, SRC, RECDTE, WT ENDIF	CONTINUE REWIND 10 IF (KTR.GT.O) THEN CALL SUN(PP.PAREA.PWGT.KB.FR.FAREA.F CALL PSHIP(PP.PAREA.PWGT.DEPOT) CALL FAHIP(FR.FAREA.PWGT.DEPOT)	
VS F	2 0.END+	10, 100	0.0 N(0) HI(0) HID(0) N(0)	0, END=	(0) TH (0) TH (0) TH (0) TH	
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	C SUBROUTINE TO CONSOLIDATE SHIPPING UNITS FOR SMALL PARCEL POST C AND FREIGHT ACCORDING TO THE FOLLOWING: SIMILAR GEOGRAPHICAL C AREA; SIMILAR DODAAC, SIMILAR CARGO CODE; SIMILAR SPECIAL C REQUIREMENTS CODE AND WITHIN THE NOT OF THE OLDEST MRD.	05890061 06900061 05910061 05920061	
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. 	S PCTR(10000), FCTR(10000)	05960077	
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₹ 1	CHARACTER*1 GA, TGA, CC, TCC, SRC, T	05980061	
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7 C	1000 FORMAT (A 2x A6 1x A6 2(1x A) 1x 13 1x F9.3)	06050065	
=	TGA=GA	06060061	
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9	WOT*RECOTE+KK	06140061	
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3 5	TE (Thomas to homas and the to see to cor and	06170061	
77	S RECOTE LE MOT THEN	06 18006 1	
23	WINS # LUMWINS	06 19006 1	
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52	TDCR*D	06210061	
56	CTR*CTR+1	06220083	
27	UDDAC**OUDAC	06230061	
9 0	CC	06250061	
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3	ELSE	06270061	
32	1# (SUMWOT, LE, 70,000) THEN	06280061	
33	1+dd=dd	D6290061	
34	PA	06300061	
ເຄ ເຄ ເຄ	PAREA (PP. 2) = TOCR	06310061	
9 6	DAMER(TY, 3) # IDUDAG	06320061	
38	PAREA (PP. B)*1	06340061	
39	PCTR(PP)=CTR	06350083	
4	PWGT(PP)=SUMWGT	06360061	
4 4	4. A Company of the C	06370C61	•
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FAREA(FR)=TSRC FORT(FR)=TSRC FORT(FR)=FOR FWGI(FR)=FOR TGA=GA TGA TGA=GA TGA TGA=GA TG	FAREA(FR.5)=TSRC FCTR(FR)=CTR FWGT(FR)=CTR FWGT(FR)=SUMWGT END IF TGA#GA TDCR=DCR CTR**I TDOR=DCR CTR**I TDOREDCC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#CDC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#SRC TSRC#CDC TSRC#CDC TSRC#CDC TSRC#CDC TSRC#CDC TSRC#CDC TSRC#CPP+1)=TGA PAREA(PP, 2)=TDCD PAREA(PP, 3)#TDGDAC PAREA(PP, 3)#TDGDAC PAREA(PP, 3)#TDGDAC PAREA(PP, 5)#TSRC PAREA(PP, 5)#TSRC PAREA(FR, 1)#TGA FAREA(FR, 1)#TGA FAREA(FR, 2)#TDGDAC FAREA(FR, 3)#TDGDAC FAREA(FR, 3)#TDGAC FAREA(FR, 4)#TCC FAREA(FR, 4)#TCC	0643006 0644008 0644008 0644006 0644006 0653006 0653006 0653006 0653006 0653006 0653006 0653006 0653006 0653006 0653006 0663006 0663006 0663006 0663006 0663006	
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END IF TGA=GA TGG=DGR TGG=CG TGCG=CC TGCGC TGCG=CC TGCG TGCG=CC TGCGC TGCG=CC TGCG=CC TGCGC TGCG=CC TGCG TGCG TGCG TGCG TGCG TGCG TGCG TGCG TGC	END IF TGA-GA TGCR-DCR CTR-1 TDODAC-DODAC TCCCCC TCCCC TCCC TCCCC TCCCC TCCCC TCCCC TCCCC TCCC TCC TCCC TCCC TCCC TCCC TCCC TCC T	0644006 0644006 0649006 0649006 0655006 0655006 0656006 0656006 0656006 0656006 0656006 0656006 0656006 0656006 0663006 0664006 0664006	
TGR-OR CTR-1 CTR-1 TOCR-DCR CTR-1 TOCR-CC TCC-CC TSR-SECOTE SUMWGT-MT MOT-RECOTE+KK END IF GO TO 100 101 CONTINUE TOCR-CO TO	TGA = GA TGCR = DCR CTR = 1 TDODAC = DODAC TCC = CC TCC = CC TCC = CC TOT = NC SUMWGT = WT MDT = RECDTE + KK END IF GG TO 100 101 CONTINUE GG TO 100 102 CONTINUE PP = PP + 1 PP = PP + 1 PAREA(PP, 2) = TDCR PAREA(PP, 3) = TDODAC PAREA(PP, 3) = TDODAC PAREA(PP, 3) = TOCR PWGT(PP) = SUMWGT ELSE ELSE FREEA(FR, 1) = TGA FAREA(FR, 2) = TDCR FAREA(FR, 2) = TDCR FAREA(FR, 2) = TDCR FAREA(FR, 3) = TDODAC FAREA(FR, 3) = TDODAC FAREA(FR, 3) = TDODAC FAREA(FR, 3) = TDODAC	064700 064800 064800 065000 065100 065300 065300 065300 065300 065300 066300 066300 066300 066300 066300 066300 066300 066300	
TOGGEDGR CTR-1 TOGGEDGR CTR-1 TOGGOGC = DODAC TCGCCC TSRC+SRC TSRC+SRC TSRC+SRC SUNWGT = WT WOT RECOTE + KK END IF GO TO 100 TO T	TOCREDCR CTR: CTR: TOCDAC=DODAC TCC#CC TSC#SRC TSAC#SRC TOATE*RECDTE SUMWGT=WT MDT=RECDTE+KK END IF GG TO 100 101 CONTINUE TO CONTINUE PP=PP+1 PP=REA(PP, 1)=TGA PAREA(PP, 2)=TDCR PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGAC FAREA(FR, 1)=TGAC FAREA(FR, 2)=TDCR FAREA(FR, 3)=TDGAC FAREA(FR, 3)=TSCC	06590061 06590061 06530061 06530061 06530061 06530061 06530061 06630061 06630061 06630061 06630061 06630061	
TOTALE JUCK CTR = 1 TODAC = DODAC TOCAC TOCAC TOCAC TOTALE = RECOTE SUNWAT = WI MOT = RECOTE + KK END IF GO (10) TO (1	CTR*I CTR*I TDODAC=DODAC TCC#CC TSRC*SRC TSRC*SRC TDATE*RECDTE SUMWGT*WT MDT*RECDTE+KK END IF END IF SUMWGT*LE.70.000) PAREA(PP.1)=TGA PAREA(PP.1)=TGA PAREA(PP.2)=TDCR PAREA(PP.3)=TDCR PAREA(PP.3)=TDCR PAREA(PP.3)=TGC	06430000 065500000 06520061 06530061 06530061 06530061 06630061 06630061 06630061 06630061 06630061	
TODDAC-DODAC TCC=CC TSC=CC TSC=CC TSC=CC TSC=ECC TOTECCE SUMMGT-WT MDT=RECDTE+KK END IF SUMMGT-WT NDT=RECDTE+KK END IF SUMMGT-LE: 70.000) THEN PP=P+1 PAREA(PP: 1)=TGA PAREA(PP: 2)=TDCR PAREA(PP: 3)=TDDAC PAREA(PP: 3)=TDDAC PAREA(PP: 3)=TCC PAREA(FR: 1)=TGA FAREA(FR: 2)=TDCR FAREA(FR: 2)=TDCR FAREA(FR: 2)=TDCR FAREA(FR: 2)=TDCR FAREA(FR: 3)=TDCAC FAREA(FR: 3)=TDCAC FAREA(FR: 3)=TDCR FAREA	TODDAC=DODAC TODAC=DODAC TORESEC TSRC*SRC TOATE=RECDTE SUMWGT=WT MDT=RECDTE+KK END IF END IF SUMWGT-LE.70.000) PP=PP+1 PP=PP+1 PAREA(PP, 2)=TDCR PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGDAC PAREA(PP, 5)=TSRC PAREA(PP, 5)=TSRC PAREA(PP, 1)=TGA PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGCAC FAREA(FR, 1)=TGA FAREA(FR, 1)=TGCA FAREA(FR, 1)=TGCA FAREA(FR, 2)=TDGCAC FAREA(FR, 3)=TDGDAC FAREA(FR, 3)=TDGDAC FAREA(FR, 3)=TDGCAC FAREA(FR, 3)=TDGCAC	06530061 06530061 06530061 06530061 06530061 06530061 06630061 06630061 06630061 06630061 06630061	
TODOAC=DODAC TOC=CC TSRC=SRC TSRC=SRC SUWMGT=WT MDT=RECDTE+KK END IF MDT=RECDTE+KK END IF GOT 100 101 (CONTINUE TE SUMWGT:LE:70.000) THEN PP=PD+1 PP=PD+PD+1 PP=PD+PD+1 PP=PD+PD+1 PP=PD+PD+PD+1 PP=PD+PD+PD+P	TDODAC=DODAC TCC#CC TSRC#SCC TSRC#SCC TDATE#ECDTE SUMWGT=WT MDT=RECDTE+KK END IF GO TO 100 101 CONTINUE PAREA(PP, 1) = TGA PAREA(PP, 1) = TGA PAREA(PP, 2) = TDCR PAREA(PP, 3) # TDODAC PAREA(PP, 3) # TDODAC PAREA(PP, 3) # TDODAC PAREA(PP, 3) # TDODAC PAREA(PP, 3) # TGCR PWGT(PP) = SUMWGT ELSE FR#FR+ 1 FAREA(FR, 1) = TGA FAREA(FR, 1) = TGCR FAREA(FR, 3) = TDODAC FAREA(FR, 3) = TDODAC FAREA(FR, 3) = TDODAC FAREA(FR, 4) = TCC	065 1006 1 065 1006 1 065 1006 1 065 1006 1 065 1006 1 065 1006 1 065 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1 066 1006 1	
TCC#CC TSC#CSC TSC#C#SCC TOATE#RECITE SUMMGT=WT MOT=RECOTE+KK END IF GO TO 100 101 CONTINUE TE (SUMMGT: LE: 70.000) THEN PP=PP+1 PAREA(PP: 1) = TGA PAREA(PP: 2) = TDCR PAREA(PP: 3) = TDCR PAREA(PP: 3) = TDCR PAREA(FP: 1) = TGA PAREA(FP: 1) = TCA PAREA(FP: 1)	TCC#CC TSRC#SRC TSRC#SEC SUMMGT=NE SUMMGT=NE SUMMGT=NE ND IF GO TO 100 101 CONTINUE SONTINUE FOREA(PP, 1)=TGA PAREA(PP, 2)=TDCR PAREA(PP, 2)=TDCR PAREA(PP, 3)=TDGDAC FAREA(FR, 1)=TGA FAREA(FR, 2)=TDCR FAREA(FR, 3)=TDGDAC	06820061 06830061 06830061 06850061 06850061 06630061 06630061 06630061 06630061 06630061	
TSRC*SRC TOATE = RECOTE SUMMGT=WT MOT=RECOTE+KK END IF GO T 100 (of CONTINUE IF (SUMWGT:LE.70.000) THEN PP=PP+1 PAREA(PP.1) = TGA PAREA(PP.1) = TGA PAREA(PP.2) = TGCR PAREA(PP.3) = TGCR PAREA(FR.1) = TGR PAREA(FR.1) = TGR PAREA(FR.1) = TGR FAREA(FR.2) = TGCR FAREA(FR.3)	TSRC*SRC TDATE*RECDTE SUMWGT*WT MDT*RECDTE+KK END IF GG TG 100 101 CONTINUE 101 CONTINUE 102 CONTINUE 103 CONTINUE 104 CONTINUE 105 CON	06530061 06540061 06550061 06550061 06580061 06650061 0660061 0660061 06610061 06640061	
TDATE=RECOTE SUMMOT=WI WID TRECOTE+KK END IF GO TO 100 10 CDNTINUE IF CAMPAGE (PP. 1) = TGA PREFA (PP. 2) = TDCR PAREA (PP. 2) = TDCR PAREA (PP. 4) = TGC PAREA (PP. 4) = TGC PAREA (PP. 4) = TGC PAREA (FR. 1) = TGC PAREA (FR. 1) = TGC FAREA (FR. 2) = TDCDAC FAREA (FR. 2) = TDCAC FAREA (FR. 4) = TCC FAREA (FR. 4) = TCC FAREA (FR. 4) = TCC FAREA (FR. 5) = TSCC FAREA (FR. 5) =	TDATE=RECDTE SUMMGT=WT MDT=RECDTE+KK END IF GG TG 100 101 CDNTINUE IF (SUMWGT.LE.70.000) PP=PP+1 PAREA(PP.2)=TDCR PAREA(PP.2)=TDCR PAREA(PP.3)=TDGDAC PAREA(PP.3)=TDGDAC PAREA(PP.3)=TDGDAC PAREA(PP.3)=TDGDAC PAREA(PP.3)=TDGDAC PAREA(PP.3)=TDGDAC PAREA(PP.3)=TDGDAC PAREA(PP.3)=TDGDAC PAREA(PR.1)=TGA FAREA(FR.1)=TGA FAREA(FR.1)=TGCR FAREA(FR.1)=TGCR FAREA(FR.1)=TGCR FAREA(FR.1)=TGCR FAREA(FR.1)=TGCR FAREA(FR.1)=TGCR FAREA(FR.1)=TGCR FAREA(FR.1)=TGCR	06340061 06350061 06350061 06370061 06390061 0660061 06630061 06630061 06640061	
SUMMGT=WT MDT=RECDTE+KK END 10 101 100 102 100 103 100 104 CONTINUE I (SUMMGT: LE: 70.000) THEN PP=PP+1 PAREA(PP: 1)=TGA PAREA(PP: 2)=TDCR PAREA(PP: 2)=TDCR PAREA(PP: 3)=TDGA PAREA(PP: 3)=TGC PAREA(PP: 1)=TGA PAREA(PP: 1)=TGA PAREA(PP: 1)=TGA FAREA(FR: 1)=TGA FAREA(FR: 1)=TGA FAREA(FR: 2)=TDGA FAREA(FR: 2)=TDGA FAREA(FR: 3)=TDGA FAREA(FR: 3)=TGA F	SUMWGT=WT MDT=RECDTE+KK END IF GG TO 100 101 CONTINUE PAREA(PP.1)=TGA PAREA(PP.1)=TGA PAREA(PP.2)=TDCR PAREA(PP.3)=TDCDR PAREA(PP.3)=TDCDR PAREA(PP.3)=TDCDR PAREA(PP.3)=TDCDR PAREA(PP.3)=TDCDAC PAREA(PP.3)=TDCDAC PAREA(PP.3)=TDCDAC PAREA(PR.1)=TGA FAREA(FR.1)=TGA FAREA(FR.1)=TGCR FAREA(FR.1)=TCCC FAREA(FR.1)=TCCC FAREA(FR.1)=TCCC FAREA(FR.1)=TCCC	06550061 06560061 06580061 06580061 06600061 06620061 06630061	
MOTERECOTE+KK END IF GOTO 100 101 CONTINUE I (SUMMOT: LE. 70.000) THEN PAREA(PP. 1) = TGA PAREA(PP. 2) = TDGR PAREA(PP. 3) = TDGDAC PAREA(PP. 3) = TGG PAREA(PP. 4) = TGC PAREA(PP. 4) = TGC PAREA(PR. 4) = TGC PAREA(PR. 1) = TGA FAREA(FR. 1) = TGA FAREA(FR. 2) = TDGA FAREA(FR. 4) = TGC FAREA(FR. 5) = TSGC FAREA(FR. 4) = TGC FAREA(FR. 4	MUDICALE CONTENTE END IF GO TO 100 101 CONTINUE IF (SUMMOT: LE: 70.000) PAREA(PP. 1) = TGA PAREA(PP. 2) = TDCR PAREA(PP. 2) = TDCR PAREA(PP. 3) = TDGDAC PAREA(PP. 3) = TDGDAC PAREA(PP. 4) = TCC PAREA(PP. 5) = TGCR FAREA(FR. 1) = TGA FAREA(FR. 2) = TDGCR FAREA(FR. 2) = TDGCR FAREA(FR. 3) = TDGDAC FAREA(FR. 3) = TDGDAC FAREA(FR. 3) = TDGCR FAREA(FR. 3) = TDGCR FAREA(FR. 3) = TDGCR FAREA(FR. 4) = TCC FARE	06560061 06570061 06570061 06670061 06670061 06670061 06670061 06670061	
END IT ERECULETRY END IT 100 101 CONTINUE I (SUMWOTELE 70.000) THEN PREA(PP 1) = TGA PAREA(PP 2) = TDCR PAREA(PP 3) = TDCAC PAREA(PP 4) = TSCC PAREA(PP 4) = TSCC PAREA(PP 3) = TDCAC FAREA(FR 1) = TGAC FAREA(FR 1) = TGAC FAREA(FR 2) = TDCAC FAREA(FR 3) = TDCAC FAREA(FR	MUIERECULETRY END IF GG TG 100 101 CONTINUE 1F (SUMWGT.LE.70.000) PAREA(PP.1)=TGA PAREA(PP.2)=TDCR PAREA(PP.3)=TDCR PAREA(PP.3)=TDCB PAREA(PP.3)=TDCB PAREA(PP.3)=TDCB PAREA(PP.3)=TDCB PAREA(PP.3)=TDCB PAREA(PP.3)=TDCB PAREA(PR.1)=TGA FAREA(FR.1)=TGA FAREA(FR.1)=TGC FAREA(FR.1)=TGC FAREA(FR.1)=TGC FAREA(FR.1)=TGC FAREA(FR.1)=TGC	06590061 06580061 06590061 0660061 06610061 06630061	
END IF GO TO 160 101 CONTINUE IF (SUMWAT.LE.70.000) THEN PAREA(PP.1)=TGA PAREA(PP.2)=TDCR PAREA(PP.3)=TDCR PAREA(PP.3)=TDCR PAREA(PP.3)=TDCR PAREA(PP.3)=TDCR PAREA(PP.3)=TDCR PAREA(PR.1)=TGA FAREA(FR.1)=TGA FAREA(FR.2)=TDCR FAREA(FR.2)=TDCR FAREA(FR.3)=TDCR FAREA(FR	END IF GOT TO TO ONTINUE SUNMOT.LE.70.000) PP=PP+1 PAREA(PP, 1)=TGA PAREA(PP, 2)=TDCR PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGDAC PAREA(PP, 4)=TCC PAREA(PP, 4)=TCC PAREA(PP, 2)=TDCR PWGT(PP)=SUNWGT ELSE FAREA(FR, 1)=TGA FAREA(FR, 2)=TDCR	06570061 06580061 06590061 06600061 06630061 06630061	
GG TO 100 If SUNWOT: LE. 70.000) THEN PP = PP+1 PAREA(PP, 1) = TGA PAREA(PP, 2) = TDCR PAREA(PP, 3) = TDCR PAREA(PP, 3) = TDCR PAREA(PP, 3) = TSCC PAREA(PP, 5) = TSCC PAREA(PP, 5) = TCC PAREA(PR, 2) = TCC FAREA(FR, 1) = TGA FAREA(FR, 2) = TDCA FAREA(FR, 2) = TCC FAREA(FR,	GG TO 100 101 CONTINUE SUMMOT: LE: 70.000) PAREA(PP.1) = TGA PAREA(PP.2) = TDCR PAREA(PP.3) = TDGDAC PAREA(PP.3) = TDGDAC PAREA(PP.3) = TGC PAREA(PP.3) = TGC PWGT(PP) = SUMWGT ELSE EREA(FR.1) = TGC FAREA(FR.1) = TGC FAREA(FR.2) = TDGDAC FAREA(FR.3) = TDGDAC FAREA(FR.3) = TDGDAC FAREA(FR.3) = TDGDAC FAREA(FR.3) = TDGC FAREA(FR.3) = TGCR FAREA(FR.3) = TSRC FAREA	06580061 06590061 06600061 06610061 06620061 06630061	
101 CONTINUE If (SUMMOT LE 70.000) THEN PP=PP+1 PP=PP+1 PP=PP+1 PAREA(PP+1)=TGA PAREA(PP+2)=TDCR PAREA(PP+2)=TDCR PAREA(PP+3)=TDCBC PAREA(PP+3)=TCC PAREA(PP+3)=TCC PAREA(PP+1)=TGA EAREA(FR+1)=TGA FAREA(FR+1)=TGA FAREA(FR+1)=TCC FAREA(FR+2)=TDCB FAREA(FR+3)=TDCBC FAREA(FR+3)=TDCBC FAREA(FR+3)=TCC FAREA(FR+3)=T	101 CONTINUE PP=PP+1 PAREA(PP, 1)=TGA PAREA(PP, 2)=TDCR PAREA(PP, 3)=TDGDAC PAREA(PP, 3)=TDGDAC PAREA(PP, 5)=TSRC PAREA(PP, 5)=TSRC PWGI(PP)=CIR PWGI(PP)=CIR PWGI(PP)=SUMWGI ELSE FREEKFR+1 FAREA(FR, 1)=TGA FAREA(FR, 1)=TGC FAREA(FR, 2)=TDGCR FAREA(FR, 2)=TDGCR FAREA(FR, 2)=TDGCR FAREA(FR, 2)=TDGCR FAREA(FR, 2)=TDGCR	06590061 06600061 06610061 06620061 06630061 06640061	
F (SUMMOT: LE: 70.000) THEN PP=PD+1 PAREA(PP: 1)=TGA PAREA(PP: 2)=TDCR PAREA(PP: 3)=TDCR PAREA(PP: 3)=TSCC PAREA(PP: 4)=TSC POTR (PP: 5)=TSC POTR (PP: 5)=TSC PAREA(FR: 1)=TGA FAREA(FR: 2)=TDCR FAREA(FR: 2)=TDCR FAREA(FR: 2)=TDCR FAREA(FR: 2)=TSC FAREA(FR: 4)=TCC FAREA(FR: 5)=TSC FARE	IF (SUNWOT: LE. 70.000) PAREA(PP. 1) = TGA PAREA(PP. 2) = TDCR PAREA(PP. 3) = TDGBAREA(PP. 3) = TDGBAREA(PP. 3) = TDGBAREA(PP. 4) = TCC PAREA(PP. 5) = SUNWGT ELSE ELSE FAREA(FR. 1) = TGA FAREA(FR. 1) = TGA FAREA(FR. 2) = TDGBAREA(FR. 2) = TDGBAREA(FR. 2) = TDGBAREA(FR. 3) = TDGBAREA(FR. 3) = TSC FAREA(FR. 4) = TCC	0660061 06600061 06620061 06630061 06640061	
IF (SUMWGT: LE: 70.000) THEN PP=PP+1 PAREA(PP.1) = TGA PAREA(PP.2) = TDCR PAREA(PP.3) = TDDDAC PAREA(PP.3) = TDCDAC PAREA(PP.3) = TCC PAREA(PP.3) = TCC PAREA(PP.3) = TCC FAREA(FR.1) = TGA FAREA(FR.2) = TCC FAREA(FR.2) = TCC FAREA(FR.3) = TCC FAREA	IF (SUMWGT: LE: 70.000) PP=PP+1 PAREA(PP.1)=TGA PAREA(PP.2)=TDCR PAREA(PP.3)=TDGDAC PAREA(PP.3)=TDGDAC PAREA(PP.3)=TGC PAREA(PP.5)=TGC PAREA(PP.5)=TGC PAREA(PR.1)=TGA FAREA(FR.1)=TGC FAREA(FR.2)=TDGCR FAREA(FR.3)=TDGDAC FAREA(FR.3)=TDGDAC FAREA(FR.3)=TSCC FAREA(FR.3)=TSCC FAREA(FR.3)=TSCC	0660061 06610061 06620061 06630061 06640061	
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PAREA(PP'3)=TDODAC PAREA(PP'4)=TCC PAREA(PP'4)=TCC PAREA(PP'5)=TSRC PWGT(PP)=CTR PWGT(PP)=CTR PWGT(PP)=CTR PWGT(PP)=TCR FREA(FR'1)=TGA FAREA(FR'1)=TGA FAREA(FR,2)=TDCR FAREA(FR,3)=TDCBAC FAREA(FR,3)=TDCBAC FAREA(FR,5)=TSRC FAREA(FR,5)=TSRC FAREA(FR)=TCC	PAREA(PF, 2) PAREA(PF, 2) PAREA(PP, 3) PCTR(PP)=CT PWGT(PP)=CT PWGT(PP)=CT PWGT(PP, 3) FAREA(FR, 1) FAREA(FR, 1) FAREA(FR, 1) FAREA(FR, 2) FAREA(FR, 2) FAREA(FR, 2) FAREA(FR, 3)	06640061 06650061	
PAREA(PP.3)=IDUDAC PAREA(PP.3)=IDUDAC PAREA(PP.5)=FCC PAREA(PP)=CTR PWGT(PP)=CTR PWGT(PP)=CTR PWGT(PP)=CTR PWGT(PP)=CTR PWGT(PP)=CTR PMGT(PP)=CTR PMGT(PP)=CTR PAREA(FR.1)=TDCDAC FAREA(FR.2)=TDCDAC FAREA(FR.3)=TDCDAC FAREA(FR.3)=TDCDAC FAREA(FR.5)=TSRC FAREA(FR.	PAREA(PP.3) PAREA(PP.4) PAREA(PP.4) PAREA(PP.5) PWGT(PP)=CT PWGT(PP)=CT PWGT(PP)=CT PWGT(PP)=CT PWGT(PP.5) FAREA(FR.1) FAREA(FR.2) FAREA(FR.2) FAREA(FR.2) FAREA(FR.2) FAREA(FR.2)	06650061	
PAREA(PP.4)=TGC PAREA(PP.5)=TSRC PUGTR(PP)=CTR PUGTR(PP)=CTR PUGTR(PP)=CTR ELSE FREA(FR.1)=TGR FAREA(FR.2)=TDGR FAREA(FR.3)=TDDDAC FAREA(FR.3)=TCC FAREA(FR.5)=TSC FA	PAREA(PP.4) PAREA(PP.5) PAREA(PP.5) PWGT(PP)=CU PWGT(PP)=SU FAREA(FR.1) FAREA(FR.1) FAREA(FR.2) FAREA(FR.2) FAREA(FR.2) FAREA(FR.2)	06650061	
PAREA(PP, 5) = TSRC PUCTR(PP) = CTR PWGT(PP) = SUMWGT ELSE ELSE FREA(FR, 1) = TGA FAREA(FR, 2) = TD0DAC FAREA(FR, 3) = TD0DAC FAREA(FR, 5) = TSCC F	PAREA(PP, 5) PCTR(PP)=CT PWGT(PP)=CT PWGT(PP)=SU ELSE FAREA(FR, 1) FAREA(FR, 1) FAREA(FR, 2) FAREA(FR, 2) FAREA(FR, 2) FAREA(FR, 2) FAREA(FR, 2)		
PCTR(PP)=CTR PWGT(PP)=CTR PWGT(PP)=SUMWGT ELSE FREA(FR.1)=TGA FAREA(FR.2)=TDGR FAREA(FR.3)=TDGDAC FAREA(FR.3)=TDGDAC FAREA(FR.5)=TSC FAREA(FR.5)=TSC FAREA(FR.5)=TSRC FAREA(FR.5	PCTR(PP)=CT PWGT(PP)=SU ELSE FREFR+1 FREAFR+1) FAREA(FR,1) FAREA(FR,1) FAREA(FR,2) FAREA(FR,2) FAREA(FR,2) FAREA(FR,2)	06660061	
PWGT(PP)=SUMWGT ELSE FREFR! FAREA(FR!)=TGA FAREA(FR.2)=TDODAC FAREA(FR.3)=TDODAC FAREA(FR.3)=TSCC FAREA(FR.5)=TSCC FAREA(FR.	PWGT(PP)=SU ELSE FR*FR+1 FAREA(FR,1) FAREA(FR,2) FAREA(FR,2) FAREA(FR,2) FAREA(FR,2) FAREA(FR,2)	06670083	
ELSE FRAFR+1 FAREA(FR+1)=TGA FAREA(FR, 2)=TDGR FAREA(FR, 2)=TDGDAC FAREA(FR, 2)=TCC FAREA(FR, 2)=TSC FAREA(FR)=TSC FAREA(FR)=TRC FAREA(FR)=SUMWGT MUATE(FR)=MDT END IF REWIND 10 RETURN	ELSE FR#FR+1 FAREA(FR,1) FAREA(FR,2) FAREA(FR,3) FAREA(FR,3) FAREA(FR,3)	06680061	
FREERFR+1 FAREA(FR,1)=TGA FAREA(FR,2)=TDCR FAREA(FR,3)=TDODAC FAREA(FR,3)=TDODAC FAREA(FR,5)=TSC FAREA(FR,5)=TSRC FAREA(FR,5)=TSRC FAREA(FR,5)=TSRC FAREA(FR,5)=TSRC FAREA(FR,5)=MDT END IF REWIND 10 RETURN	FAREA(FR.1) FAREA(FR.1) FAREA(FR.2) FAREA(FR.3) FAREA(FR.4)	1 300 5 50	
FAREA(FR.1)=TGA FAREA(FR.2)=TDGR FAREA(FR.3)=TDGDAC FAREA(FR.3)=TDGDAC FAREA(FR.5)=TSC FAREA(FR.5)=TSC FAREA(FR.5)=TSRC FAREA	FAREA(FR.1) FAREA(FR.2) FAREA(FR.2) FAREA(FR.4)		
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FAREA(FR, 2) = TOCR FAREA(FR, 3) = TODDAC FAREA(FR, 4) = TCC FAREA(FR, 5) = TSRC FCTR(FR) = SUMWGT FYGT(FR) = SUMWGT FYGT(FR) = MOT FWIND 10 REWIND 10 RETURN	FAREA(FR.2) FAREA(FR.3) FAREA(FR.4) FAREA(FR.5)	06710061	
FAREA(FR. 3) = TODDAC FAREA(FR. 4) = TCC FAREA(FR. 5) = TSRC FCTR(FR) = SUMWGT WUSTE(FR) = MDT END IF REWIND 10 RETURN END	FAREA(FR.3) FAREA(FR.4) FAREA(FR.5)	06720061	
FAREA(FR, 4) = TCC FAREA(FR, 5) = TSRC FCTR(FR) = CTR FYGT(FR) = CUMWGT FYGT(FR) = MDT END IF REWIND 10 RETURN END	FAREA(FR.4) FAREA(FR.5)	06730061	
FAREA(FR)=15RC FCTR(FR)=CTR FYGT(FR)=SUMWGT MDATE(FR)=MDT END IF RETURN	FAREA(FR.5)	06740061	
FARCA(TK; 3)=13KC FCTK(FR)=CTR FYGT(FR)=SUMWGT WOATE(FR)=MDT END IF REWIND 10 RETURN	TAKEALTK,U	0001000	
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10	DO 10 142 PP	06970061
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4	IF (U.EQ.PP) THEN	07010061
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***** END OF COMPILATION 3 *****

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	NOXREF NOGOSTMT NODECK SOURCE TERM OBJECT FIXED NAGLVL(77) NOFIPS FLAG(1) NAME(MAIN) LINECOUNT(GO)	C SUBROUTINE TO WRITE THE FREIGHT SHIPPING UNITS TO AN EXTERNAL C FILE FOR FURTHER CONSOLIDATION INTO TRANSPORTATION UNITS:	SUBROUTINE FSHIP(FR,FAREA,FWGT,MDATE,DEPOL) INTEGER FR,MDATE(10000),FCTR(10000) REAL FWGT(10000) CHARACTER*2 DEPOT	(CTER*6 FÁREA(10000,8) :R.GT.O) THEN 1 10 U*1,FR WRITE(16,1000) DEPOT,FAREA(U.1),FAREA(U.2),FAREA(U.3), WRITE(16,1000) DEPOT,FAREA(U.1),FAREA(U.2),FAREA(U.3),	, A6	SOURCE STATEMENTS = 13, PROGRAM SIZE = 41192 BYTES, PROGRAM NAME = FSHIP NO DIAGNOSTICS GENERATED. OMPILATION 4 ******
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^ -		00650011	
		000011	
		0670011	
_	IT(1).LT.30000.000) THEN	NGB0011	5.00
.		069001	
		0720011	•
	47 L+1	0730011	
0		0740011	
		0750020 075001	
· •	- THEN	0770011	
	!)) THEN	0780012	3
.o.	XEN.	0790011	ī -
		00810011	¥
		O8 20011	
	SUSTIL = SURT(+)UNI(U)	0830011	
.		0840011 0850011	
- ~			
	AVGLTL "SUMLTL/NLTL"	00870011	: •
• 16			
		•.	
	IF (NTL.GT.O) THEN WOYTE(31 10011 THENTY (121 17 THENTY (121 0) NET E MITE	00920019	
	A COLL LOVE LEVEL STATE COLLEGE SOURCE COLLEGE SOUR		
	A6.2X,13,2(4X,F10.3),2X,13,2(4X,F11.3))	0980049	
91	LINES=LINES+1	0960020	
~ ~	THAT I THE TOTAL TO SEE THE TOTAL TO SEE THE TOTAL TO SEE THE TOTAL TOTA	09/0019	
16. 39. 30.	WKITE (21,1001) TUNIT(0=1,1),TUNIT(0=1,2),NLT.	O0880055	
	INES+1		
in (1010019	
96			
	30C = 0	01040011	
	NTL*O	01050011	

MAIN							ONE Se Ses Albert Ses		
NAME:	6 40 40 4	• യ യ •	o u	000	#1 60 O	0 4 ***		មា មា មា មា ម	−∞ ∞
TIME: 09:57:17	0 1080016 0 1080016	0110016	0114001	•	MLTL, SUMLTL. 01200055 01210053 01220020	01230019 01240024 01250011	0126001 01270011 01280011 01290015	01310015 01320015 01330015 01340015	01360011 01370009 01380009 01390009
DATE: OCT 28, 1988	55			1,1,1,1UN11(0-1,2), SUMTL	TUNIT(U-1.1), TUNIT(U+1.2). AVOLTE:NTE.SUMTL) THEN		
VS FORTRAN	2 3 NLTL=NLTL+1 ELSE	SUMTL=TUWT(J) NTL=NTL+1 END IF	END IF SE IF (NTL.GT.O) THEN	WRITE(21,1001) TUNIT(u-1,1), UNLI(u-1,2), NEIL, SUMELL AVGLTL, NTL, SUMTL LINES=LINES+1	WRITE (21,1001) TUNIT(U+1,1);TUNIT(U+1,2);NETL;SUMETE AVGLTE;NTL;SUMTE	END IF LINES=5 SUMLTL=0	SUNTL#0 NLTL#0 NTL=0 IF (TUWT(J).LT.30000.000) THEN	SUMLTL=TUWT(J) NLTL=NLTL+1 ELSE SUMTL=TUWT(J) NTL=NTL+1	END AT CONTINUE STOP END
LEVEL 1.3.0 (MAY 1983)			107 108 109		113	16	119 120 121		12/ 128 10 CO 130 ST 131 EN
LEV	NS I	I SN I SN	I SN I SN I SN	NS I	NS I	NS I	NS I S	NS I S I S I S I S I S I S I S I S I S I	1878

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PAGE: SOURCE STATEMENTS = 131, PROGRAM SIZE = 166702 BYTES, PROGRAM NAME = MAIN *STATISTICS* *STATISTICS* NO DIAGNOSTICS GENERATED.
****** END OF COMPILATION 1 *****

APPENDIX B Sample Simulation Output Case

DEFENSE DEPOT TRACY, CALIFORNIA

ACTUAL NUMBER OF TRANSPORTATION UNITS BUILT

							1) 4) 4)		
SHIPMENT COST \$312.29		\$21.20	\$20.00	\$20.40	\$20.00 \$29.40	\$29.94	\$20.00 \$20.00	\$ 30, 96	\$44.48
SHIPMENT WEIGHT 15192	15192	212 212 212	<u>6</u> <u>8</u> 6	204 204 204	438 438 549 275		87 40 127 64	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1112
NUMBER OF SHIPPING UNITS	,	n w	-		- - 2 . 0		1		in o
GOVERNMENT BILL OF LADING C4461900	_	C4467607 1	C4462776 .1	C4467683 1	C4465490 C4467611	C4466491 1	64461120 C4463723 2	C4467610 1	C4461118 C4462325
SHIPPING DATE OGO		060	063	060	083 080	£ 80	055 069 069	ပန ်	055 062
	GBLS PER DCR	GBLS PER DCR IGHT	GBLS PER DCR	ILS PER DOR	GBLS PER DCA 16HT	OF GBLS PER DCR L WEIGHT	GBLS PER DCR	GBLS PER DCR IGHT	
DCR 873270	NUMBER OF SUBTOTAL AVERAGE WE	Z12508 NUMBER DF Subtotal Average We	Z13413 NUMBER OF SUBTOTAL AVERAGE WE	Z13414 NUMBER DF GBLS SUBTOTAL AVERAGE WEIGHT	, C 6	4 1	49136 UMBER OF UBTOTAL VERAGE WE	149137 Number of Subtotal Nverage we	871155
MODE OF Saipment		•			Z20285 NUMBER SUBTOTA AVERAGE	236266 NUMBER SUBTOT AVERAG	ZVZ		
GEOGRAPHIC AREA A									

DEFENSE DEPOT TRACY, CALIFORNIA

ACTUAL NUMBER OF TRANSPORTATION UNITS BUILT

SHIPMENT	\$43.92 \$29.94 \$18.96 \$65.10 \$42.12 \$100.28	\$24.00		\$20.00 \$29.60 \$20.60 \$15.90	\$121.48 \$71.95 \$104.92 \$73.16	\$229.70 \$40.34 \$144.18 \$29.94 \$290.79	8		\$79.6B
SHIPMENT	732 485 316 1302 702 2507	8133 1017 240	240 240	141 296 159 159 200 200	4702 1439 2623 1829 532	9100 902 4726 325	37649	n	6120
NUMBER OF SHIPPING	00001-0	27	T	4	24 24 0 10 R	, 430 2 0 – 10	o •	- 1	143
GOVERNMENT BILL OF LADING	C4462777 C4463703 C4465291 C4466485 C4467609	8 C4463701	-	C4463702 C4465290 C4466487 C4467682	C4461066 C4462323 C4462778 C446369	C4464784 C4465289 C4466492 C4467606	10	1	34 C4460716
SHIPPING	06693 00336 093	690		069 076 083 090	055 062 063	076 090	Coc		ÖSŠ
		OF GBLS PER DCR Al E Weight	DF GBLS PER DCR L Weight	IF GBLS PER DCR WEIGHT			DF GBLS PER DCR WEIGHT	F GBLS PER DCR WEIGHT	
Dog	871155	∞ +∞ ⋖	NUMBER OF SUBTOTAL AVERAGE WE	K C	်		TAL SE WE	A C F	C62KV0
MODE OF COR	87115	KUMBE SUBTO AVERA AVERA 87175		87327 NUMBE SUBTC AVERA	87327		NUMBEI	NUMBE SUBTO AVERA	SUBTOTAL SUBTOTAL B ČGŽKVC
GEOGRAPHIC AREA	**************************************			보고 있다.					SUBTOTAL SUBTOTAL B

DEFENSE DEPOT TRACY, CALIFORNIA

ACTUAL NUMBER OF TRANSPORTATION UNITS BUILT

GEOGRAPHIC MODE OF OCRAREA SHIPMENT		SHIPPING	GOVERNMENT BILL OF LADING	NUMBER OF SHIPPING UNITS	SHIPMENT	SHIPMENT	
NUMBE SUBTO AVERA	ER OF GBLS PER DCR OTAL AGE WEIGHT		-	-	6120		
A HX362	50	055	C4461102	က	13551	\$285.00	
NUMBE SUBTO AVERA			-	173 U	13551		
SUBCA	16	054	C446 1032	•	2		
NUMBE SUBTC AVERA 229	ER OF GBLS PER DCR 37AL 4GE WEIGHT	050 076	1 C4460252 C4465098	છ	1713 1714 1680 2883	\$31.47 \$31.47	
NUMBE SUBTC AVERA	ER OF GBLS PER DCR DTAL AGE WEIGHT		2	1	4563 2282		
3DK NUMB SUBT	ER OF GBLS PER DCR OTAL AGE WEIGHT	057 067	C4460493 C4461784 2	8	1780 350 2130 1065	**************************************	
	37 ALC NGE	070	C4463947 1	7	8791 8791	\$261.67	
87643L NUMBER SUBTOT. A VERAG	31. ER OF GBLS PER DCR 01AL AGE WEIGHT	063	C4459977 C4460026 C4462766	- m 0	73 2315 2315 5451 1817	\$1.52 \$65.04 \$25.50	
87644		056 060 077 078	C4461247 C4461610 C4465554 C4465809	(C 20 C) C	18476 34600 18294 28630	\$170.57 \$250.81 \$295.00 \$295.01	
		083 084	C4466493 C4466493 C4466517 C4466705	7,000	22483 18455 9886 10596	\$295.00 \$229.01 \$215.42 \$118.75	

GEOGRAPHIC MODE OF DCR AREA SHIPMENT	DCA		SHIPPING DATE DATE	GOVERNMENT BILL OF LADING	NUMBER OF SHIPPING UNITS	SHIPMENT	SHIPMENT	MENT
₩.	87644J		084 085	C4466748 C4467050		14986 7995	\$133. \$79.	72
NUMBER SUBTOTA AVERAGE 87650M	NUMBER OF GBL Subtotal Average Weigh	ILS PER DCR	Č64	10 G4462948	57	184401 18440 4995	**************************************	. <u>o</u>
	NUMBER OF GBL Subtotal Average weigh	ILS PER DCR		-	ហ	4995		
887 NU SU	9743 MBER O BIOTAL	LS PER DCR	ÖSE	C446 1262 1	 1	42 42 42 42 42 42 42 42 42 42 42 42 42 4		S S
ec .	OAHB Mber o Btotal Erage	LS PER DCR	083			180 180 180	21.	8
3 0 1 0 1 0	CLOCE2		053 060 063	C4460441 C4461127 C4461697 C4462782	00	594 254 992 216	\$35. \$21. \$59. \$17.	4 80 4 80 8
			000 000 000 000 000 000	C4463096 C4463096 C4463714 C4464102		306 306 410 410 4020	**************************************	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			046 081 083	044649999 04465922 04465922 04466302 04466300 0446600 0446600 0446600 0446600 0446000 044600000000		137 1869 1869 1200 1275 136	2010 2010 2010 2010 2010 2010 2010 2010	00000000000000000000000000000000000000
NUMBEI SUBTO AVERA	NUMBER OF GBLS Subtotal Average Weight	LS PER DCR	0 0 0 0 0		N.O	836 605 14945 787		0 4 00 0 6 4
C62KV	C62KVQ		690	C4463712		13	9\$	30

								÷ •		
SHIPMENT COST		\$44.62 \$23.32			86.00 87.00 87.00 85.00 85.00 84.00	\$23.90 \$16.12 \$16.12 \$17.00	\$2.80 \$28.80 \$24.83 \$18.26 \$18.26	. 		\$17.00
SHIPMENT	73	661 281	942	2818 617 240 2868 100 104	1605 2 277 978	14675 1334 378 110 98	112 175 347 299 220	196 196 89 184 274 4 14	62 100 2753	6536 344 162
NUMBER OF SHIPPING	UNITS	6 8	W.	יםמ	4-4-	20		- 4		33
GOVERNMENT BILL OF LADING	-	C4460106 C4460193	a	C4461241 C4462263 C4462263 C4462456 C4463078 C4463078	C4465288 C4465697 C4466605 C4466733	C4460202 C4460318 C4460318 C4461246	C4462315 C4462180 C4462180 C4463705 C4463705		444	19
SHIPPING		049 050		056 066 062 064 067	076 078 083 084	050 054 056	063 063 075	0778 078 0881 0883	080 080	049
	GBLS PER DCR E1GHT		GBLS PER DCR IGHT			GBLS PER DCR				GBLS PER DCR
DCR		HX3619	NUMBER OF SUBTOTAL AVERAGE WE	HX3620		P. W.				ER OF OTAL AGE WE 96
MODE OF SHIPMENT	NUMBER Subtot Averag	8		. ЭЕХН						NUMBER O Subtotal Avéragé NOO296
GEOGRAPHIC AREA		8								
			150	and the second		4.5 (1)	the state of the s		11.	

SHIPPING MODE OF SHIPPING SHIPPING	NUMBER SHIPMENT SHIPMENT OF WEIGHT COST SHIPPING UNITS	\$17.	617.	860 \$38.09 145 \$33.68 1455 \$17.00 2 339 \$28.14 4 783 \$52.84		2 229 2 229 2 229	\$20,34 245 245 245	86 \$17.00 1 80 80	244 \$20.25 183 \$17.00 3 427	2 19165 \$ 188.88
	G GOVERNMENT BILL OF LADING	C4460200 C4460434 C4461125	C4462257 C4462591 C4462789	C4462036 C4463097 C4464642 C4464942 C4465234	C4467555 C4467697	64467623	C4460191		C4463618 C463618 2	C4461685 1
	YSerii		884F	800x4.44		a disebili sebili Silasa 1788an		NG2448 NUMBER OF GBLS PER DCR SUBTOTAL AVERAGE WEIGHT	OGB OGB SBLS PER DCR IGHT	SUBCAG NUMBER OF GBLS PER DCR SUBTOTAL

						·		.•	,
SHIPMENT		0.00 0.00 0.00 0.00 0.00	\$17.00	*106.08	813. 18	\$17.00	\$33.68 \$18.26 \$4.84 \$17.00		\$8.48 \$104.82 \$37.87 \$17.97
SHIPMENT	24	56 1068 375 8010 6010	188 188 188	2040 2040 2040	120 120	55 57 57 57	220 220 80 115 215 215	1100	32286 3 2286 3 1767 302
NT NUMBER OF SHIPPING									
VG GOVERNMENT BILL DF LADING	-	R0090054 R0090206		C4462868	C4463704	C4464966	C4463095 C446411 C4464941 C4467613 C4467689	\$	C4460100 C4460528 C4460981 C4461124 C4461821
SHIPPING DATE	DCR	048 075 077 089 DCR	07.4 DCR	063	ÖGB	075 5CR	067 070 075 090	DCA	049 053 055 055
	F GBLS PER WEIGHT	F GBLS PER	WEIGHT IF GBLS PER WEIGHT	DF GBLS PER DCR L WEIGHT	OF GBLS PER DCR .L .WEIGHT	DF GBLS PER DCR AL E WEIGHT		F GBLS PER Weight	
LV LV	4 m	SW3200 SW3200 NUMBER C SUBTOTAL	AVERAGI W81A1J NUMBER SUBTOTA	W818Y3 NUMBER DE SUBTOTAL AVERAGE W	Z11412 NUMBER SUBTOTAL AVERAGE	234360 NUMBER SUBTOT AVERAG	247500	NUMBER D Subtotal Average	228
RAPHIC MODE OF C	NUMBER SUBTOT AVERAG	B SW32 NUMBE SUBTG					541.8	NUMB SUBT AVER	228
GEOGRAF		60							

ACTUAL NUMBER OF SMALL PARCEL CARRIER SHIPMENTS BUILT

GEOGRAPHIC AREA		PARCEL POST ZONE	NUMBER OF SHIPPING UNITS	TOTAL WEIGHT	AVERAGE WEIGHT	COST PER SHIPMENT	TOTAL SHIPMENT COST
A	G	2	27 23	386.782 72.215	14.325 3.140	\$2.75 \$2.10	\$74.25 \$48.30
	5	2 3 8	262 161 15	13449.458 1656.226 248.820	51.334 10.287 16.588	\$5.53 \$2.55 \$8.48	\$1,448.86 \$410.55 \$127.20
В	G	1 2 4 9	247 43 3 235	3553.495 359.546 18.282 4559.852	14.387 8.362 6.094 19.404	\$2.75 \$2.30 \$3.10 \$0.00	\$679.25 \$98.90 \$9.30 \$0.00
	5	1 2 3 4	1167 284 15 1	38024.096 4620.924 111.639 14.476	32.583 16.271 7.443 14.476	\$4.11 \$2.70 \$2.16 \$3.85	\$4,796.37 \$766.80 \$32.40 \$3.85
C	G	1 2 3 9	71 64 18 27	669.537 659.362 182.347 382.888	9.430 10.303 10.130 14.181	\$2.38 \$2.47 \$3.11 \$0.00	\$168.98 \$158.08 \$55.98 \$0.00
	5	1 2 3 8	446 522 256 9	10989.022 14583.723 5984.924 86.097	24.639 27.938 23.379 9.566	\$3.42 \$3.69 \$4.20 \$5.53	\$1,525.32 \$1,926.18 \$1,075.20 \$49.77
D	G	3 9	239 1	3898.818 1.540	16.313 1.540	\$3.70 \$0.00	\$884.30 \$0.00
	5	3	553	15585.636	28.184	\$4.84	\$2,676.52
Ε	C	3 4 9	110 258 156	915.123 3563.945 1573.572	8.319 13.814 10.087	\$2.82 \$4.56 \$0.00	\$310.20 \$1,176.48 \$0.00
	5	3 4 9	403 996 3	11003.982 24963.653 275.715	27.305 25.064 91.905	\$4.71 \$5.72 \$0.00	\$1,898.13 \$5,697.12 \$0.00
F	G	4 9	64 24	589.127 170.335	9.205 7.097	\$3.78 \$0.00	\$241.92 \$0.00
	5	4	758	24282.786	32.035	\$7.01	\$5,313.58
G	G	1 2 9	9 145 39	244.420 2619.133 323.631	27.158 18.063 8.298	\$3.29 \$2.93 \$0.00	\$29.61 \$424.85 \$0.00
	5	1 2	150 289	6573.314 9655.305	43.822 33.409	\$4.99 \$4.19	\$748.50 \$1,210.91
н	G	2 4 5 6	20 71 31 2	92.158 1023.099 455.455 4.972	4.608 14.410 14.692 2.486	\$1.95 \$4.67 \$6.44 \$2.98	\$39.00 \$331.57 \$199.64 \$5.96
	5	2 4 5 6	5 816 649 97	24.288 33551.969 16690.124 2519.231	4.858 41.118 25.717 25.971	\$1.62 \$8.56 \$6.94 \$8.63	\$8.10 \$6,984.96 \$4,504.06 \$837.11
Ī	G	1	15	202.917	13.528	\$2.69	\$40.35

		9	451	29604.344	65.642	\$0.00	\$0.00
	5	1	264	6641.052	25.156	\$3. 51	\$926.64
J	G	4	35	455.741	13.021	*/ */	
•	•	3	65	679.866		\$4.56	\$159.60
		9	415	14036.154	10.459 33.822	\$5.40 \$0.00	\$351.00 \$0.00
	5	3 4	2	3.311	1.656	\$1.47	\$2.94
		4	556	12464.771	22.419	\$5.21	\$2,896.76
		5	823	31167.422	37.871	\$9.68	\$7,966.64
		7 9	12	20.944	1.745	\$2.20	\$26.40
		•	1	46.860	46.860	\$0.00	\$0.00
K	G	2 4	20	170.137	8.507	\$2.30	\$46.00
		4	47	566.830	12.060	\$4.44	\$208.68
		5 6	19	185.647	9,771	\$5.05	\$95.95
		6	3	53.350	17.783	\$8.85	\$26.55
	5	2 4 5	236	6188.677	26.223	\$3.60	\$849.60
		*	700	22296.582	31.852	\$6.84	\$ 4,788.00
		6	333	11633.644	34.936	\$9.01	\$3,000.33
		8	<i>7</i> 3	1910.810	26.175	\$8.91	\$650.43
		•		0.110	0.110	\$1.91	\$1.91
L	G	3	110	2000.086	18.183	\$3.83	\$421.30
		3 4	160	2709.927	16.937	\$4.88	\$780.80
	5	3	10	238.271	23.827	e/ 20	
	-	3 4	635	19255.830	30.324	\$4.20 \$6.62	\$42.00 \$4,203.70
					30.324	₩.02	\$4,203.70
М	G	4	10	174.229	17.423	\$4.98	\$49.80
	5	4	231	12802.933	FF (3)		
	•	3	20	340.560	55.424	\$10.21	\$2,358.51
		•	20	340.300	17.028	\$5.21	\$104.20
N	G	5	19	306.944	16.155	\$6.75	\$128.25
		6	66	670.274	10.156	\$6.83	\$450.78
		7	48	739.816	15.413	\$10.52	\$504.96
	5	5	285	4247.430	14.903	\$4.56	e1 200 40
		6	251	4279.286	17.049	\$6.38	\$1,299.60 \$1,601.38
		7	624	27699.683	44.391	\$17.27	\$10,776.48
						J.1.21	\$10,776.46
0	G	5	23	157.157	6.833	\$4.00	\$92.00
		6	1	16.500	16.500	\$8.66	\$8.66
	5	5	564	14957 007	20.000		
	•	6	11	16857.907	29.890	\$7.80	\$4,399.20
		· ·	• • • • • • • • • • • • • • • • • • • •	151.019	13.729	\$3.26	\$57.86
P	G	6	20	215.083	10.754	\$6.83	6177 (0
	_	7	-9	112.310	12.479	\$9.65	\$136.60 \$86.85
	5	4					
	ر	6 7	608 304	11134.442	18.313	\$6.67	\$4,055.36
		8	304	4892.657	16.094	\$7.26	\$2,207.04
		•	•	1.177	1.177	\$2.37	\$2.37
Q	G	5	2	4.818	2.409	\$2.59	ee .c
		5 6 7	12	267.355	22.280	\$9.68	\$5.18 \$114.14
		7	19	282.821	14.885	\$10.24	\$116.16 \$194.56
	5	5	67	1020.338	15.229	\$4.78	\$320.26
		5 6	298	3845.413	12.904	\$4.78 \$4.98	\$320.26 \$1,484.04
		7	354	4205.091	11.879	\$5.51	\$1,950.54
		8	5	100.100	20.020	\$10.16	\$50.80
	_	_					
R	G	8 9	92	1430.506	15.549	\$15.35	\$1,412.20
		y	420	5525.113	13.155	\$0.00	\$0.00

	5	7 8 9	127 1281 1	1809.797 116784.481 5.280	14.250 91.167 5.280	\$6.57 \$24.79 \$0.00	\$834.39 \$31,755.99 \$0.00
s	G	7 8 9	12 12 157	98.483 185.493 1657.964	8.207 15.458 10.560	\$7.17 \$15.35 \$0.00	\$86.04 \$184.20 \$0.00
	5	7 8	511 311	9193.921 5923.269	17.992 19.046	\$7.61 \$9.74	\$3,888.71 \$3,029.14
τ	G	8 9	40 18	339.691 98.648	8.492 5.480	\$10.22 \$0.00	\$408.80 \$0.00
	5	8	585	9933.913	16.981	\$8.48	\$4,960.80
U	G	. 7 8	14 39	202.928 694.991	14.495 17.820	\$10.24 \$16.11	\$143.36 \$628.29
	5	7 8	347 790	4979.502 19368.371	14.350 24.517	\$6.57 \$11.84	\$2,279.79 \$9,353.60
v	G	3 8 9	1 56 372	0.011 649.836 3915.637	0.011 11.604 10.526	\$1.81 \$13.09 \$0.00	\$1.81 \$733.04 \$0.00
	\$	3 5 8	13 2 1057	205.150 5.148 25557.378	15.781 2.574 24.179	\$3.18 \$2.11 \$11.84	\$41.34 \$4.22 \$12,514.88
W	G	8 9	41 310	645.315 3331.977	15.739 10.748	\$15.35 \$0.00	\$629.35 \$0.00
	5	5 8	6 900	42.372 45107.986	7.062 50.120	\$3.05 \$22.79	\$18,30 \$20,511.00
x	G	9	5	40.645	8,129	\$0.00	\$0.00
	5	9	2	0.209	0.105	\$0.00	\$0.00
Y	G	4 5	19 66	283.503 785.708	14.921 11.905	\$4.67 \$5.75	\$88.73 \$379.50
	5	4 5	302 450	9877.098 14656.378	32.706 32.570	\$7.01 \$8.58	\$2,117.02 \$3,861.00
z	G	5	56	875.039	15.626	\$6.60	\$369.60
	5	5	689	35175.811	51.053	\$12.41	\$8,550.49
TOTAL			27726	837661.220			\$215,690.67

AREA SHIPMING AR
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GEOGRAPHIC AREA		PARCEL POST ZONE	NUMBER OF SHIPPING UNITS	TOTAL WEIGHT	AVERAGE WEIGHT	COST/SHIPMENT	TOTAL SHIPMENT COST
A	G	. 3	7 14	47.113 83.897	6.730 5.993	\$2.75 \$2.10	\$19.25 \$29.40
	5	2 3 8	52 54 5	1012.726 646.470 111.705	19.476 11.972 22.341	\$5.53 \$2.55 \$8.48	\$287.56 \$137.70 \$42.40
В	G	1 2 9	59 11 110	975.700 128.491 1615.988	16.537 11.681 14.691	\$2.75 \$2.30 \$0.00	\$162.25 \$25.30 \$0.00
	5	1 2 3 4	377 86 3 3	5818.571 1247.180 45.496 32.758	15.434 14.502 15.165 10.919	\$4.11 \$2.70 \$2.16 \$3.85	\$1,549.47 \$232.20 \$6.48 \$11.55
С	G	1 2 9	28 18 11	444.510 188.056 250.492	15.875 10.448 22.772	\$2.38 \$2.47 \$0.00	\$66.64 \$44.46 \$0.00
	5	1 2 3 8	110 137 53 5	1384.658 1862.631 409.486 86.097	12.588 13.603 7.726 17.219	\$3.42 \$3.69 \$4.20 \$5.53	\$376.20 \$505.53 \$222.60 \$27.65
D	G	3	33 1	591.173 1.540	17.914 1.540	\$3.70 \$0.00	\$122.10 \$0.00
	5	3	97	1400.772	14.441	\$4.84	\$469.48
E	G	3 4 9	66 55 ∵107	704.484 553.091 1554.762	10.674 10.056 14.530	\$2.82 \$4.56 \$0.00	\$186.12 \$250.80 \$0.00
	5	3 4 9	124 368 1	1483.581 4951.221 0.990	11.964 13.454 0.990	\$4.71 \$5.72 \$0.00	\$584.04 \$2,104.96 \$0.00
F	G	4 9	29 13	256.542 298.661	8.846 22.974	\$3.78 \$0.00	\$109.62 \$0.00
	5	4	235	2875.004	12.234	\$7.01	\$1,647.35
G	G	5	24 81	306.449 750.079	12.769 9.260	\$2.93 \$0.00	\$70.32 \$0.00
	5	5	20 48	545.940 526.833	27.297 10.976	\$4.99 \$4.19	\$99.80 \$201.12
н	G	2 4 5	18 13 10	102.146 139.755 93.181	5.675 10.750 9.318	\$1.95 \$4.67 \$6.44	\$35.10 \$60.71 \$64.40
	5	2 4 5 6	3 278 203 19	14.300 4000.852 2567.026 196.889	4.767 14.392 12.645 10.363	\$1.62 \$8.56 \$6.94 \$8.63	\$4.86 \$2,379.68 \$1,408.82 \$163.97
1	G	9	483	5437.795	11.258	\$0.00	\$0.00
	5	1	46	523.050	11.371	\$3.51	\$161.46

1	G	4 5	13 19	152.196	11.707	\$4.56	\$59.28
		ģ	191	222.838 2227.566	11.728 11.663	\$5.40 \$0.00	\$102.60 \$0.00
	5	3 4 5 7	2 257	3.311 3524.378	1.656 13.714	\$1.47 \$5.21	\$2.94 \$1,338.97
		5 7	455 8	5769.434 19.844	12.680 2.481	\$9.68 \$2.20	\$4,404.40 \$17.60
		9	1	46.860	46.860	\$0.00	\$0.00
K	G	2 4	8 10	105.886 87.417	13.236	\$2.30	\$18.40
		5	7	128.623	8.742 18.375	\$4.44 \$5.05	\$44.40 \$35.35
	5	2 4 5 6 8	57 326	676.489 4344.120	11.868 13.326	\$3.60 \$6.84	\$205.20 \$2,229.84
		5 6	174 8	2527.382 129.547	14.525 16.193	\$9.01 \$8.91	\$1,567.74 \$71.28
		8	1	0.110	0.110	\$1.91	\$1.91
L	G	3 4	34 31	554.696 649.858	16.315 20.963	\$3.83 \$4.88	\$130.22 \$151.28
	5	4	127	2150.344	16.932	\$6.62	\$840.74
H	5	4	52	648.923	12.479	*10.04	
	-	4 5	4	51.260	12.815	\$10.21 \$5.21	\$530.92 \$20.84
N	G	5	9	164.802	18.311	\$6.75	\$60.75
		6	32 10	417.439 141.647	13.045 14.165	\$6.83 \$10.52	\$218.56 \$105.20
	5	5 6	129 103	1683.176	13.048	\$4.56	\$588.24
		7	409	1104.136 5475.888	10.720 13.388	\$6.38 \$17.27	\$657.14 \$7,063.43
0	G	5	3	0.924	0.308	\$4.00	\$12.00
	5	5 6	289 10	4160.046 180.301	14.395	\$7.80	\$2,254.20
		Ū	10	100.501	18.030	\$5.26	\$52.60
P	G	6 7	7 9	215.116 229.185	30.731 25.465	\$6.83 \$9.65	\$47.81 \$86.85
	5	6	326	4510.583	13.836	\$6.67	\$2,174.42
		7 8	239 1	2711.170 1.177	11.344	\$7.26 \$2.37	\$1,735.14 \$2.37
•		_				42.57	22.3 1
Q	G	5 6	1 6	4.818 183.458	4.818 30.576	\$2.59 \$ 9.68	\$2.59 \$58.08
	_	7	12	223.575	18.631	\$10.24	\$122.88
	5	5 6	33 133	435.336 1668.447	13.192 12.545	\$4.78 \$4.98	\$157.74 \$662.34
		7 8	210 3	2449.964 29.150	11.666 9.717	\$5.51 \$10.16	\$1,157.10
			_	27.130	7.717	310.10	, \$30.48
R	G	. 8 9	68 305	910.613 4926.273	13.391 16.152	\$15.35 \$0.00	\$1,043.80 \$0.00
	5	2	.1	19.800	19.800	\$2.97	\$2.97
		2 7 8	65 1104	676.522 14014.891	10.408 12.695	\$6.57 \$24.79	\$427.05 \$27,368.16
		9	2	21.175	10.588	\$0.00	\$0.00
s	G	7	6	66.682	11.114	\$7.17	\$43.02
		8 9	8 118	115.148 1376.221	14.394 11.663	\$15.35 \$0.00	\$122.80 \$0.00

DEFENSE DEPOT TRACY, CALIFORNIA

	5	7	270	3717.989	13.770	\$7.61	\$2,054.70
	•	8	168	2005.707	11.939	\$9.74	\$1,636.32
_	_		44	227 005	47 474	440.22	e477 7/
T	G	8 9	17 15	223.905 102.828	13.171 6.855	\$10.22 \$0.00	\$173.74 \$0.00
	5	8	397	5641.702	14.211	\$8.48	\$3,366.56
U	G	1	5	105.160	21.032	\$3.06	\$15,30
U	u	7	4	88.660	22.165	\$10.24	\$40.96
		8	22	486.662	22.121	\$16.11	\$354.42
	5	7	184	2332.682	12.678	\$6.57	\$1,208.88
		8	569	6398.865	11.246	\$11.84	\$ 6,736.96
v	G	1	2	6.116	3.058	\$1.81	\$3.62
•	•	8	38	400.510	10.540	\$13.09	\$497.42
		9	249	3427.644	13.766	\$0.00	\$0.00
	5	2	1	18.700	18.700	\$2.88	\$2.88
	-	3	4	89.397	22.349	\$3.18	\$12,72
•		2 3 5	Ź	5.148	2.574	\$2.11	\$4.22
		8	850	10432.202	12.273	\$11.84	\$10,064.00
u	G	8	13	119.845	9.219	\$15.35	\$199.55
•	u	9	312	3137.464	10.056	\$0.00	\$0.00
	5	1	1	6.182	6.182	\$1.80	\$1.80
	•	1 5 8	į.	42.372	10.593	\$3.05	\$12.20
		8	588	7655.208	13.019	\$22.79	\$13,400.52
X	G	9	49	597.443	12.193	\$0.00	\$0.00
	•	•		7/4 7/0	44 70/		
	5	9	29	341.748	11.784	\$0.00	\$0.00
Y	G	4	18	300.651	16.703	\$4.67	\$84.06
•	_	4 5	4	145.244	36.311	\$5.75	\$23.00
	5	4	47	500,951	10.659	\$7.01	\$329.47
		4 5	108	1456.598	13.487	\$8.58	\$926.64
Z	G	5	12	220.891	18.408	\$6.60	\$79.20
	5	2	5	60.412	12.082	\$2.34	\$11.70
	,	2 5	158	2307.984	14.607	\$12.41	\$1,960.78
TOTAL			13099	170784.756			e115 10/ 40
IOIAL			13077	110104.130			\$115,104.60

\$100,586.07 SAVINGS AT DDTC FOR A TYPICAL 45 DAY PERIOD 46.63% PER CENT SAVINGS

\$804,688.56 SAVINGS AT DDTC FOR A TYPICAL YEAR
\$4,828,131.36 SAVINGS AT ALL 6 DLA DEPOTS FOR A GIVEN YEAR

~	REPORT DOCUM	MENTATION F	PAGE								
1a. REPORT SECURITY CLASSIFICATION		1b. RESTRICTIVE M	MARKINGS								
UNCLASSIFIED					j						
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION /	AVAILABILITY OF	REPORT							
2b. DECLASSIFICATION / DOWNGRADING SCHEDUI	E										
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Economic Analysis Office	DLA-LO	Defense Lo	gistics Age	ncy (DLA-I	L)						
6c. ADDRESS (City, State, and ZIP Code)		7b. ADDRESS (City	, State, and ZIP (Code)							
Cameron Station		Cameron St	ation								
Alexandria, VA 22304-6100		Alexandria	, VA 22304-	-6100							
8a. NAME OF FUNDING/SPONSORING ORGANIZATION	8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT	INSTRUMENT IDE	ENTIFICATION	NUMBER						
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Cameron Station		PROGRAM	PROJECT	TASK	WORK UNIT						
Alexandria, VA 22304-6100		ELEMENT NO.	NO.	NO.	ACCESSION NO.						
11. TITLE (Include Security Classification)		L	<u> </u>	L							
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16. SUPPLEMENTARY NOTATION											
17. COSATI CODES	18. SUBJECT TERMS (C	ontinue on reverse	if necessary and	l identify by b	lock number)						
FIELD GROUP SUB-GROUP	Shipment cons	olidation, T	ransportatio	on, Wareho	ousing						
				ŭ.							
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This report summarizes the work done and conclusions reached in a study of depot low priority shipment consolidation effectiveness. IPG III requisitions for compatible items and with the same destinations are consolidated to make maximum use of transportation and warehousing funds. This process is highly automated but frequently the oldest requisition is removed from the shipment data bank before the routine drop date. The resulting consolidation is thus smaller than it would have been under ideal conditions. The model constructed for this study emulates the consolidation process. The optimization of the consolidation process assumes a perfect system but can still be a useful tool in determining effectiveness trends at the Defense Logistics Agency supply depots. For a typical depot in a 45-day period this model shows that under optimal conditions, small parcel shipments could be reduced in excess of 63 percent.											
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